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Water Supply Outlook
For
Utah





SOIL CONSERVATION SERVICE U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

Y UTAH STATE DEPARTMENT of NATURAL RESOURCES

MAY 1, 1980

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: THE SNOTEL PROJECT CENTRAL COMPUTER FACILITIES IN PORTLAND, OREGON. THE TERMINAL, PRINTER, COMPUTER AND TAPE DRIVES HAVE NOT COMPLETELY REPLACED THE SNOW SAMPLING TUBES SEEN IN THE FOREGROUND.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in a cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
A laska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR UTAH

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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In Cooperation with

UTAH STATE DEPT. OF NATURAL RESOURCES

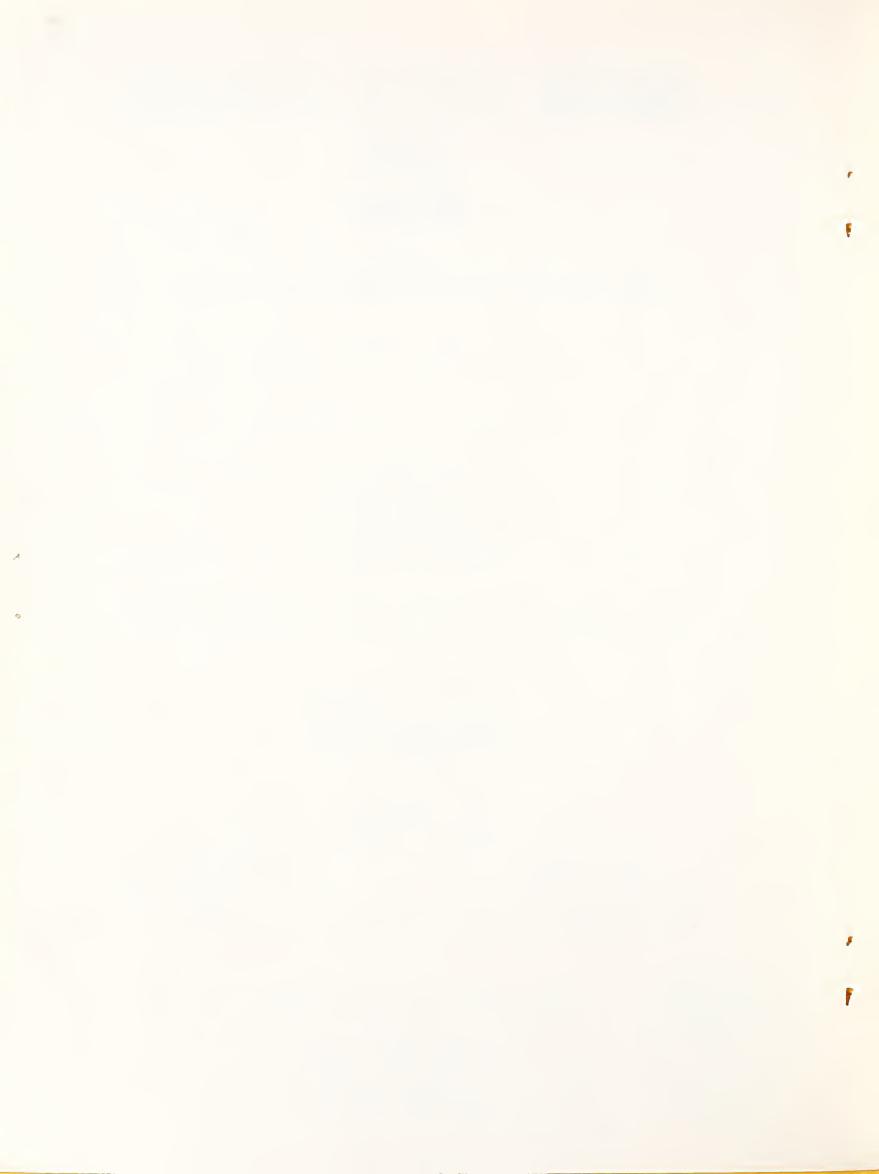
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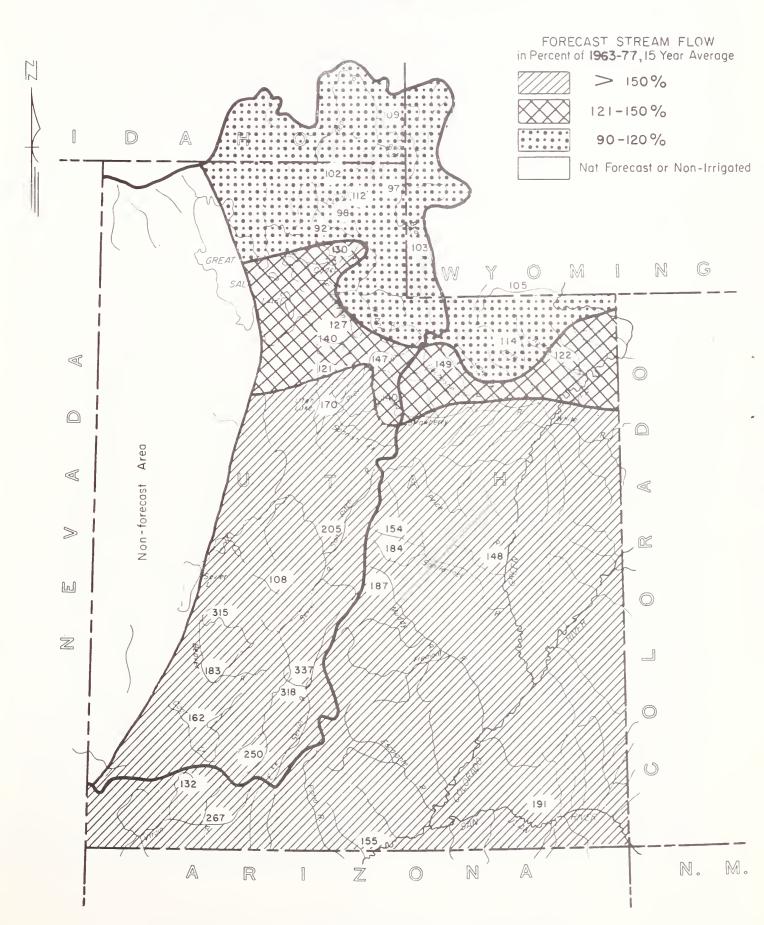
SOIL CONSERVATION SERVICE SNOW SURVEY SECTION 4420 FEDERAL BUILDING SALT LAKE CITY, UTAH 84138

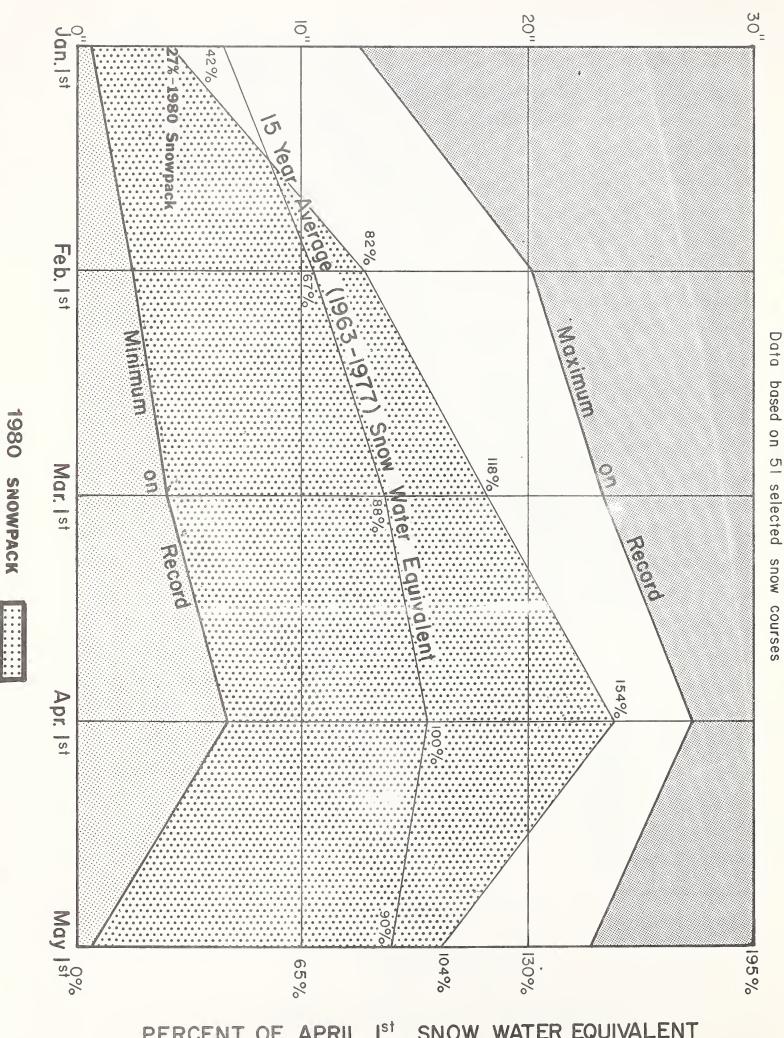


PROSPECTIVE WATER SUPPLIES

Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS







UTAH'S WINTER SNOWPACK

PERCENT OF APRIL Ist SNOW WATER EQUIVALENT

as of May 1, 1980

* Utah's 1980 water supply outlook ranges from near average along the northern border to excellent in * the southern third of the state. Snow Cover is * 121% of average statewide and reservoir storage * is 107% of average. Streamflow forecasts range * from near average on the Bear to better than three * times average on the Sevier. *

SNOW COVER

May 1 snow cover ranges from 77% of average on the Lower Bear to 324% on the Blue Mountains in southeastern Utah. Lower and middle elevation snow melted faster than normal during a warm, dry April.

Snow cover in other basins is as follows: Ogden River 106%, Weber River 106%, Provo 120%, Strawberry 159%, Lakefork 182%, Ashley 161%, Price 166%, San Rafael 154%, Muddy 152%, Lower Sevier 110%, Upper Sevier 172%, Virgin 191%, Beaver 173%, Coal Creek 195% of average.

SOIL MOISTURE

Soil moisture improved as snow melted at medium and higher elevations. Valley soils began to lose moisture.

RESERVOIR STORAGE

Reservoir storage in 24 key irrigation structures totaled 107% of average and 4% better than last year. Most reservoirs are now expected to fill as runo ff progresses.

STREAMFLOW FORECASTS

Streamflow forecasts now range from near average on the Bear River to better than three times average on the Sevier and Lower Beaver. Bear River Basin forecasts range from 92% for Little Bear to 112% for Logan River. Weber-Ogden forecasts range from 114% for the Weber at Oakley to 130% for Pineview Reservoir Inflow. Provo-Utah Lake tributary forecasts range from 164% for American Fork to 209% for Spanish Fork. Streams along the Salt Lake Front range from 121% for Little Cottonwood to 150% for Mill Creek.

Uintah Basin forecasts range from 107% on Whiterocks to 217% for Duchesne at Myton. Southeastern Utah forecasts range from 133% for Seven Mile Creek to 191% for San Juan near Bluff.

WATER SUPPLY OUTLOOK (continued)

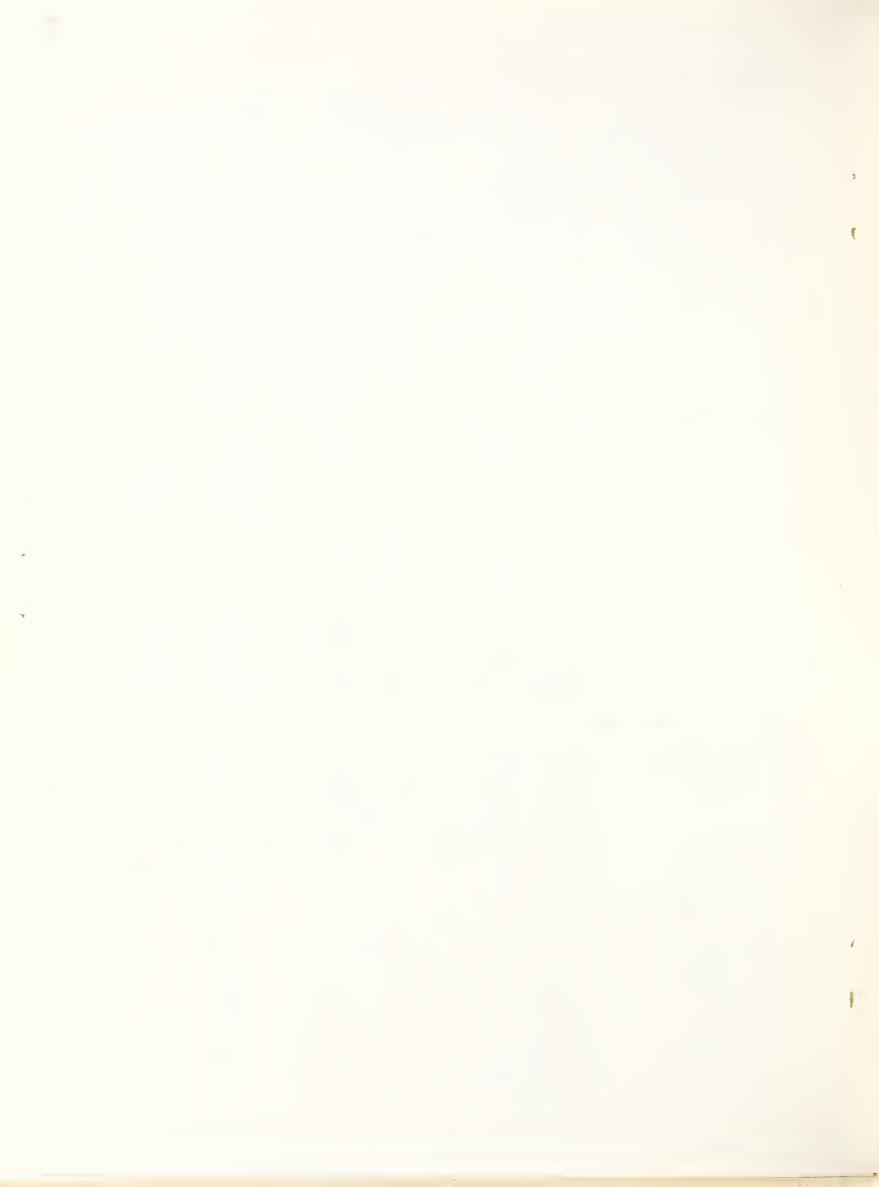
Sevier River forecasts range from 152% for Ephraim Creek on the San Pitch to 341% for the Sevier below Piute Dam.

Virgin River is forecast 267% at Hurricane and 132% for Santa Clara near Pine Valley. Coal Creek is forecast 162% and Beaver River 183% near Beaver and for North Creeks and 315% for the inflow to Minersville Reservoir.

Water users are expected to have near average supplies on the Bear River and above average to excellent water supplies in southern Utah.

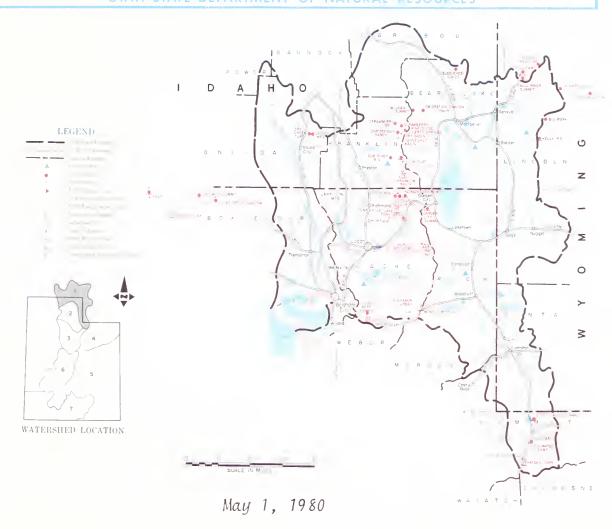
RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

	DECEDIAL	Usable		Usable Storage		
Basin or Stream	RESERVOIR	Capacity	This Year	Last Year	Average	
GREAT BASIN						
Bear River	Bear Lake	1421.0	1,116.1	1091.7	1098.4	
bear kiver	Woodruff Narrows	26.5	19.0	26.5	25.7	
Beaver River	Minersville (RkyFd)	23.3	19.9	17.9	15.3	
Little Bear	Hyrum	15.3	11.5	10.5	13.4	
	Porcupine	11.3	11.4	11.1	8.7	
	Causey	6.9	5.6	4.7	2.3 ^b	
	Pineview	110.1	83.1	92.0	76.9	
Provo	Deer Creek	149.7	127.2	93.7	115.1	
Settlement Creek	Settlement Creek	1.2	0.6	0.8		
	Vernon Creek	0.6	0.6	0.6		
	Gunnison	18.2	18.2	17.2	14.9	
	Otter Creek	52.5	49.2	43.7	39.5	
	Piute	71.8	50.1	45.4	47.1	
	Sevier Bridge	236.0	192.9	123.9	144.6	
Spanish Fork	Strawberry	270.0	182.0	176.3	166.0	
<u>Utah Lake</u>	Utah Lake	883.9	886.8	883.9	775.5	
Weber	East Canyon	48.1	39.7	43.3	33.1	
	Echo	73.9	45.4	63.0	55.2	
	Lost Creek	20.0	12.3	15.2	13.9 ^b	
	Rockport	60.9	32.9	40.4	37.2	
	Willard Bay	193.3	178.2	164.1	162.9 ^b	
COLORADO RIVER BASIN	4					
Ashley Creek	Steinaker	33.3	18.1	15.3	23.7	
Colorado	Blue Mesa	829.5	352.1	274.7	-	
	Lake Powell	25002.0	21569.0	17317.0		
Green	Flaming Gorge	3749.0	2381.8	2475.0		
Lakefork	Moon Lake	35.8	11.9	12.0e	19.0	
Price River	Scofield	65.8	45.2	40.7	36.9	
San Juan	Navajo	1696.0	1181.0	1247.8		
San Rafael	Huntington North	3.9	3.8	3.7	3.9b	
	Joe's Valley	54.6	37.7	40.7	39.1b	
	Mill Site	16.7	6.4	8.7		
Strawberry	Starvation	165.3	79.6	101.3		
Uintah	Bottle Hollow	11.3	11.0	10.8		
		11.0	11.0	10,0		



BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL PESOURCES



THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER began to melt with warmer temperatures and is now gone from low and medium elevations. The Upper Bear is 86% of average and the Lower Bear is 77% of average for May 1.

PRECIPITATION at mountain stations ranged from 15 to 56% of the April average.

SOIL MOISTURE improved at higher and medium elevations as snow melt progressed but valley areas began to lose moisture with less than average precipitation.

RESERVOIR STORAGE is near average.

STREAMFLOW FORECASTS range from 92% of average on the Little Bear to 112% on the Logan River. All water users should have a near average water supply this season.

BEAR RIVER BASIN in UTAH

STREAMFLOW FORECASTS		THIS YEA	R		RECORD	SUMMARY OF SHOW MEASUREMENTS (COMPARISON				
BASIN, STREAM and/or FORECAST POINT		CAST	FORECAST	THOUSAND		RIVER BASIN and or SUB-WATERSHED	Number of Courses		THIS YEAR AS A PERCENT OF	
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Averege	PERIOD	Lest Yeer	Average †		Averaged	Lost Year	Average	
BEAR RIVER						BEAR RIVER	20	89	80	
Bear nr UT-Wyo. State Line	110	101	May-July		109	UPPER BEAR RIVER	7	107	86	
Bear nr Woodruff	130	103	May-July		126					
Woodruff Crk nr Woodruff, UT	16.0	98	May-July		16.3	LOWER BEAR RIVER	13	82	77	
Big Creek nr Randolph, Utah	5.0	104	May→July		4.8b					
Bear nr Randolph	89	97	May-July		92	LOGAN RIVER	7	90	83	
Thomas Fork nr UT-Wy State Ln	38	109	May -Sept		35		İ			
Smith's Fork nr Border, Wyo.	125	104	May Sept		120	UPPER RAFT RIVER				
Bear at Harer, Idaho 1/	268	99	May-Sept		. 271					
Logan nr Logan 1	116	1182	May-July		104					
Blacksmith Fork nr Hyrum	39	98	May-July		40				1	
Little Bear nr Paradise	24	92	May-June		26					
Cub River nr Preston, ID	50	102	May-Sept		49					
1 - Observed flow corrected for	change	in st	rage and	diversi	ons					
2 - Provisional flows - Subject	to cor	rection								
b - Average of all past record	1	1								
		1								
	1	1								

RESERVOIR STORAGE (Thousand Acre Feet)

Porcupine

					TENN TEUMO			
	255501010	Usebie	USEABLE STORAGE			50050457.00	PEAK FLOW (SE	OND FEET)
BASIN OR STREAM	RESERVOIR	Capecity	This Yeer	Lest Yeer Averege†		FORECAST PDINT	Forecest Range	Average †
BEAR RIVER	Bear Lake Woodruff Narrows	1421.0 26.5	1116.1	1091.7 26.5		Bear River nr UT/WY Stateline Big Creek nr Randolph Logan River nr Logan Woodruff Creek nr Woodruff Little Bear nr Paradise	1300-1800 60-100 900-1300 150-250	1600 44 1016 267 517
LITTLE BEAR	Hyrum Porcupine	15.3 11.3	11.5 11.4	10.5 11.1	13.4 8.7			

PEAK FLOWS

+ - 1963-77 15 year Average Period SHOW THIS YEAR PAST RECORD THIS YEAR PAST RECORD Weter Content (inches) DRAINAGE BASIN and/or SNDW CDURSE DRAINAGE BASIN and/or SNDW COURSE Snow Depth (Inches) Veter Conte (Inches) Water Content (inchee) Deta of Survey Snow Depth (Inches) etar Conter (Inchee) Lest Year Average T 0.0 3.0 Burts-Miller Ranch 4/25 Little Bear Lower 4/28 0 0.0 0.0 2.1 4/28 0 0.0 0.0 0.0 Little Bear Upper 4/28 0 0.0 8.4 6.7 Cub River R.S. Emigrant Summit 4/30 41 19.4 19.1 24.9 Monte Cristo 4/28 53 25.5 24.7 27.6 Franklin Basin 4/28 49 23.0 24.8 27.0a Salt River Summit 4/29 27 10.0 14.2 15.4 4/25 4/28 Hayden Fork 39 18.3 13.5 16.7 Stillwater Camp 4/25 29 11.4 10.2^b 6.1 28 12.3 16.8 Klondike Narrows 15.1 Tony Grove R.S. 4/28 0.0

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE Federol Bldg. - Room 4012 Salt Lake City, Utah 84138

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WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE SOL CONSERVATION SETVICE
UTAH STATE DEPARTMENT OF NATURAL PEROUNCES



May 1, 1980

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER is now 106% of the May 1 average on both the Ogden and Weber water-sheds after a warm, dry April. The Ogden snow cover is 13% less than last year on May 1 and the Weber is 24% more than a year ago.

PRECIPITATION at mountain stations ranged from 16 to 58% of the April average.

SOIL MOISTURE improved with the melting of the snow pack at medium and high elevations. Valley soils are beginning to lose moisture after a dry April.

RESERVOIR STORAGE is generally near to above average with all reservoirs expected to fill as runoff progresses.

STREAMFLOW FORECASTS for the May-June period range from 93% for Farmington Creek to 130% for Pineview Inflow. The Weber at Oakley is forecast 114%, East Canyon Creek 127%, Chalk Creek 115%, Lost Creek 119%, and Hardscrabble Creek 102%. Rockport Reservoir Inflow is forecast 114% and Echo Reservoir Inflow 116% of the May-June average. All water users are expected to have near average water supplies this season.

TREAMFLOW FORECASTS		THIS YEA	R	PAST	RECORD	SUMMARY OF SHOW MEASUREMENTS (COMPARISON W	ITH PREVIOUS YEARS)				
		Parcent of	FORECAST	THOUSAND ACRE FEET				RIVER BASIN and or SUB-WATERSHED	Number of Courses	ses IFIIS TEAR AS A FEA	
BASIN, STREAM end/or FORECAST POINT	Thousand Acre Fest	Average	PERIOD	Last Year	Averege *		Averaged	Lost Year	Average		
WEBER-OGDEN RIVERS						OGDEN RIVER	5	87	106		
Weber nr Oakley	109	114	May-June		96	WEBER RIVER	12	124	106		
Rockport Reservoir Inflow 1	112	114	May-June		98						
Chalk Creek at Coalville	38	115	May-June		33						
Weber nr Coalville	121	116	May-Jun	2	104						
Echo Res. Inflow	154	116	May-Jun	2	133						
Lost Creek nr Croydon, Utah	15.0	119	May-June	•	12.6						
East Canyon Creek nr Morgan l	22	127	May-Jun		17.3						
Hardscrabble Crk nr Portervi	lle16.6	102	May-Jun		16.3						
South Fork Ogden nr Huntsvil	le 54	129	May-June	2	42						
Pineview Reservoir Inflow ²	99	130	May-Jun	•	76						
Weber at Gateway	278	116	May-Jun		238						
JORDAN RIVER & SALT LAKE											
Farmington Crk nr Farmington	6.4	93	May-July	7	6.9						
1 - Observed flow corrected fo	chang	e in st	orage and	divers	ions						
2 - Inflow record as computed	by U.S.	Bureau	of Recla	mation							
3 - Provisional flows - Subjec					-						
L A	1 1	1 . 1 . 7	4 P		1	1		1			

b - Average of all past record - less than 15 years

		Useble	USEABLE STORAGE					
RACIN OR STREAM	RESERVOIR	Capacity	This Year	Last Year	Averaget			
OGDEN	Causey	6.9	5.6	4.7	2.3			
	Pineview	110.1	83.1	92.0	76.9			
WEBER	East Canyon	48.1	39.7	43.3	33.1			
	Echo	73.9	45.4	63.0	55.2			
	Lost Creek	20.0	12.3	15.2	13.9 ^t			
	Rockport	60.9	32.9	40.4	37.2			
	Willard Bay	193.3	178.2	164.1	162.9			

PEAK FLOWS		
FORECAST POINT	PEAK FLOW (SEC	
	Forecast Range	Average †
South Fork Ogden nr Huntsville	850-1150	772
Chalk Creek nr Coalville	500-850	569
Lost Creek nr Croydon	270-390	206Ъ
II .	i	

NOW		THIS YEAR		PAST RECORD		SNOW	THIS YEAR			PAST R	ECORD
DRAINAGE BASIN end/or SNOW COURSE	Onte		Weter Content	Weter Cont	ent (inches)	DRAINAGE BASIN end/or SNOW COURSE	Date	Date Snow Depth	Depth Water Content	Water Content (inches)	
NAME	of Survey	(Inches)	(Inchee)	Fett Aem	Average †	NAME	of Sutvey	(inchee)	(Inches)	Lest Year	Averege
Beaver Creek R.S.	4/25	10	4.8	0.0	1.3	Horse Ridge	4/28	39	18.7	20.0	20.
Beaver Creek-Skunk Creek	4/28	13	4.5	7.4	7.1	Lost Creek Reservoir	4/28	0	0.0	0.0	0.0
Ben Lomond Peak	4/28	84	42.2	44.6	37.2	Monte Cristo	4/28	53	25.5	24.7	27.
Ben Lomond Trail	4/28	22	9.1	15.4	7.7h	Parleys Canyon Summit	4/29	32	13.1	11.6	14.
Chalk Creek #1	4/25	62	26.3	20.4	25.4	Sagebrush Flat	4/28	0	0.0	0.0	0.
Chalk Creek #2	4/25	39	16.2	11.3	15.3	Smith & Morehouse	4/25	32	12.3	7.1	10.
Dry Bread Pond	4/28	43	19.4	19.3	19.0	Trial Lake	4/25	75	32.1	25.0	26.
						e - estimated					
		ļ									

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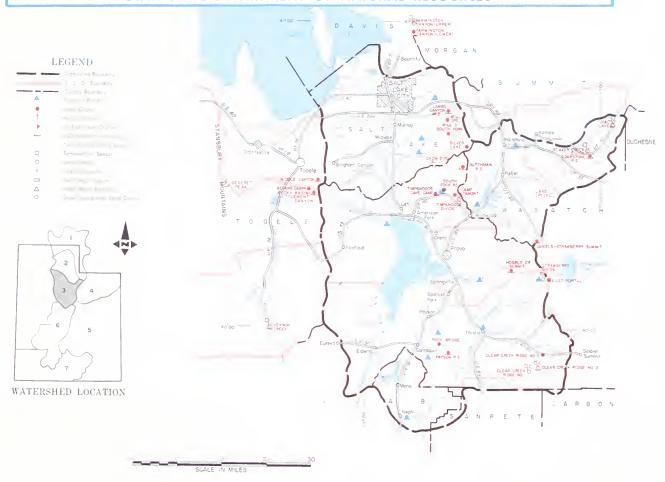


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TINCE OF THE STATE OF THE SECONDARY
UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



May 1, 1980

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 103% of the May 1 average in Tooele Valley to 120% on the Provo-Utah Lake watershed. Snow cover along the Salt Lake Front is now 106% of average.

PRECIPITATION at mountain stations ranged from 27% of the April average at Timpanogos Divide to 75% at Middle Canyon above Tooele.

SOIL MOISTURE improved at medium and higher elevations as the snow began to melt. Lower elevation soils have lost moisture during April.

RESERVOIR STORAGE is above average and above average April inflow caused Utah Lake to go above compromise at +0.03 feet.

STREAMFLOW FORECASTS now range from 114% for Settlement Creek to 209% for the Spanish Fork River. Provo River is forecast 170% at Deer Creek Dam and 170% for Utah Lake Inflow. Salt Lake Front streams are forecast 121% for Little Cottonwood to 150% for Mill Creek. Vernon Creek is forecast 167% of average. All water users are expected to have average or better water supplies this season.

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

STREAMFLOW FORECASTS		THIS YEA	R	PAST	RECORO	SUMMARY OF SHOW MEASUREMENTS (COMPARISON WITH	PREVIOUS YEARS		
	FORE		FORECAST	THOUSANO	ACRE FEET	RIVER BASIN and or SUB-WATERSHED	Number of Courses	THIS YEAR AS	A PERCENT OF
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Parcent of Average	PERIOD	Lest Year	Average †		Averaged	Last Year	Average
PROVO RIVER AND UTAH LAKE						PROVO RIVER & UTAH LAKE	2	114	120
Provo nr Hailstone l	137	147	May-July		106				
Provo below Deer Creek Daml	168	170	May-July		100	JORDAN RIVER & SALT LAKE	6	97	106
American Fork nr American Fork	46	164	May-July		28				
Hobble Creek or Springville	30	208	May-July		14.4	TOOELE VALLEY	4	92	103
Strawberry Reservoir Inflowl	59	140	May-July		42				
Spanish Fork at Thistle	63	209	May-July		30 ^b				
Payson Creek nr Payson	7.0	137	May-July		5.14			1	
Utah Lake Inflow	296	170	May-July		174.3				
JORDAN RIVER & SALT LAKE									
Little Cottonwood Crk nr SLC	43	121	May-July		35				
Big Cottonwood nr SLC	44	129	May-July		34				
Parley's Creek nr SLC	17.0	140	May-July		12.1	1 - Observed flow corrected for	change in	storage and	diversion
Mill Creek nr SLC	8.1	150	May-July		5.4	2 - Provisional flows - Subject	to correc	tion	
Emigration Creek nr SLC	4.2	145	May-July		2.9	a - Partly estimated			
City Creek nr SLC	9.5	138	Apr-July		6.9				
TOOELE VALLEY									
Vernon Creek nr Vernon	1.0	167	May-July		0.6				
eservõik sturate (thousand accepte)	2.5		May-July		2.1b	PEAK FLOWS	i .	1	

BASIN OR STREAM	RESERVOIR		USEABLE STORAGE				
		Capacity	Usebla Capecity This Year Last Year				
SPANISH FORK	Strawberry	270.0	182.0	176.3	166.0		
JTAH LAKE	Utah Lake Settlement Creek	883.9 1.2	886.8 0.6	898.0 0.8	775.5 		
PROVO	Vernon Creek Deer Creek	0.6 149.7	0.6 127.2	93.7	115.		

	PEAK FLOW (SECOND FEET)				
FORECAST POINT	Forecest Renge	Average			
Hobble Creek nr Springville	400-500	260 ^b			
Spanish Fork nr Thistle	950-1150	482b			
Big Cottonwood nr Salt Lake City	475-575	310			
Mill Creek nr Salt Lake City	75-95				
Parleys Creek nr Salt Lake City	225-275	116			

Little Cottonwood 550-650 550**-**700 2200**-**2500 American Fork nr American Fork --Provo nr Hailstone 60-80 Emigration Creek City Creek 100-125

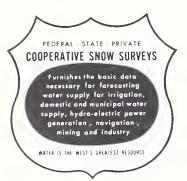
	THIS YEAR		PAST P	ECORD
Data	Snow Depth	Water Content	Water Conti	ent (inchas)
of Survay	(inchas)	(inches)	Last Year	Average †
4/29	3	1.5	3.6	5.9
4/29	28	13.8	12.5	7.7
5/3	47	19.4	19.1	17.7
5/3		5.0e	0.0	10.5
5/3	0	0.0	0.0	0.1
5/3	30	12.6	12.7	9.5
4/30	74	34.0		
4/29	41	20.0	13.8	9.8
5/3	15	7.2	13.5	7.7
5/1	21	8.2	6.1	-~
4/29	14	6.4	12.5	10.4
5/1	45	18.8	19.5	
				Ì
	4/29 4/29 5/3 5/3 5/3 5/3 4/30 4/29 5/3 5/1 4/29	Date of Survey Snow Depth (Inches) 4/29 3 4/29 28 5/3 47 5/3 5/3 0 5/3 30 4/30 74 4/29 41 5/3 15 5/1 21 4/29 14	Date of Survey	Data of Survey Snow Ocode Water Content (Inches) Last Year

SHOM		THIS YEAR		PAST F	RECORO
DRAINAGE BASIN and/or SNOW COURSE	Deta	Snow Depth	Water Content	Water Cont	ent (inches)
NAME	of Survey	(Inches)	(Inchas)	Last Year	Average †
Mill D South Fork	4/29	33	14.8	14.6	16.2
Parleys Canyon Summit	4/29	32	13.1	11.6	14.6
Payson R.S.	5/3	31	12.4	16.6	15.8
Rocky Basin-Settlement Canyo	n 5/2	71	33.2	27.8	30.2
Silver Lake Brighton	4/29	62	37.8	31.4	27.6
Soapstone R.S.	4/25	25	9.2	5.6	7.9
South Fork R.S.	4/29	0	0.0		
Timpanogos Divide	4/29	69	34.2	24.0	22.0
Trial Lake	4/25	75	32.1	25.0	26.1
Vernon Creek	4/30	13	6.5	13.0	4.0b
			İ		

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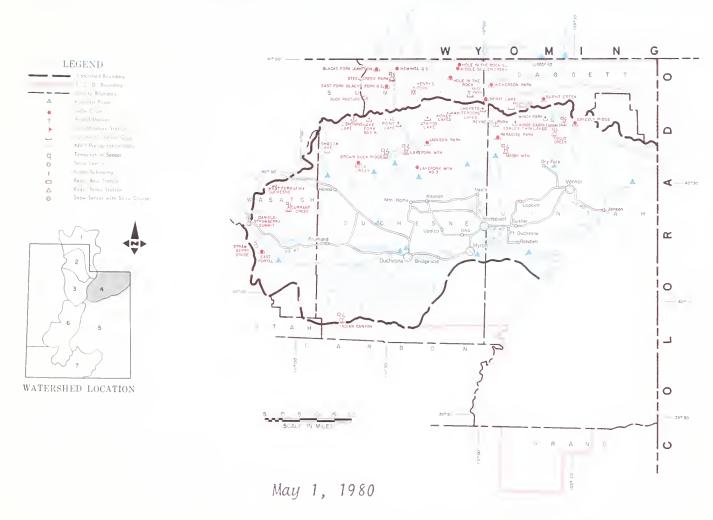


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UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



THE WATER SUPPLY RANGES FROM AVERAGE TO ABOVE AVERAGE

SNOW COVER ranges from 118% of the May 1 average on Black's Fork to 182% on Lakefork-Yellowstone Rivers. The Uintah-Whiterocks Rivers are 164% and Ashley Creek 161% of the May 1 average. Aerial Markers flown May 5 indicate record water contents at Lightning Lake and Ashley-Twin Lakes. Others are near previous highs.

PRECIPITATION at mountain stations ranged from 58 to 82% of the April average.

SOIL MOISTURE improved with the beginning of snow melt at higher elevations.

RESERVOIR STORAGE is below the 15 year average but should fill as snow melt progresses.

STREAMFLOW FORECASTS for the May-June period range from 105% on Henry's Fork to 217% for the Strawberry at Duchesne. Ashley Creek is forecast 122%, Whiterocks 107%, Uintah 114%, Yellowstone 119%, Lakefork 113%, Rock Creek 137%, Duchesne at Tabiona 143%, and Currant Creek 130%. Flaming Gorge Inflow is forecast 112% of the April-July average. Water users are expected to have near average or better water supplies this season.

UINTAH BASIN and DAGGETT SCD's in UTAH

STREAMFLOW FORECASTS	$\overline{}$	THIS YEA	R	PAST	RECORO	SUMMARY OF SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)				
	FORE		FORECAST	THOUSAND		RIVER BASIN and or SUB-WATERSHED	Number of Courses	THIS YEAR AS	A PERCENT OF	
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feel	Percent of Average	PERIOO	Lest Yaar	Average †		Averaged	Last Year	Average	
UCHESNE RIVER						DUCHESNE RIVER - TOTAL	11	123	153	
Duchesne nr Tabiona 1	146	149	May-July		98	LAKEFORK-YELLOWSTONE CREEKS	2	195	182	
Duchesne at Duchesne ¹	264	147	May-July		180					
Strawberry at Duchesne	104	217	May-July		48	STRAWBERRY RIVER	3	101	159	
Rock Creek nr Mtn. Home	125	137	May-July		91					
Currant Creek nr Fruitland	26	130	May-July		16	UINTAH - WHITEROCKS RIVERS	2	129	164	
Lakefork below Moon Lake ¹	78	113	May-July	1	69					
Yellowstone nr Altonah	75	119	May-July		63	ASHLEY CREEK	1	169	161	
Duchesne at Myton ¹	350	181	May-July		193					
Whiterocks nr Whiterock	62	107	May-July	·	58	BLACK'S FORK	3	150	118	
Uintah nr Neola	101	114	May-July		89					
Duchesne at Randlett ¹	417	188	May-July		222					
West Fork Duchesne at Hanna	33	138	May-July		24					
LAMING GORGE TO DUCHESNE RIVER										
Henry's Fork at Linwood	45	105	May- July		43					
Black's Fork at Millburne	120	133	May-July		90					
Flaming Gorge Inflow 1	1450	112	Apr-July		1292	1 - Observed flow corrected for	change in	storage and	diversion	
Ashley Creek nr Vernal	61	122	May-July		50	2 - Provisional flows - Subject	to correc	tion		

RESERVOIR STORAGE (Thousand Acre Feet)

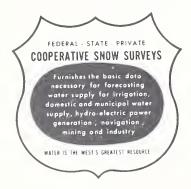
RESERVOIR STORAGE (Th	ousand Acre Feet)					PEAK FLOWS				
		Usable	U	SEABLE STORA	GΕ		PEAK FLOW (SE	OND FEET)		
BASIN OR STREAM	RESERVOIR	Capacity	This Year	Lest Year	Averaga†	FORECAST POINT	Forecasi Range	Average +		
ASHLEY CREEK	Steinaker	33.3	18.1	15.3	23.7	Strawberry at Duchesne	1050-1600	636		
						Ashley Creek nr Vernal	900-1400	1030		
GREEN RIVER	Flaming Gorge	3749.0	2381.8	2475.0						
LAKE FORK	Moon Lake	35.8	11.9	12.0e	19.0					
STRAWBERRY	Starvation	165.3	79.6	101.3	129.1 ^b					
UINTAH	Bottle Hollow	11.3	11.0	10.8	10.7 ^b					
	1		1	1	, ,	i				

SHOW		THIS YEAR		PAST F	ECORO	SNOW		THIS YEAR		PAST R	ECORO
ORAINAGE BASIN and/or SNOW COURSE	Data	Snow Depth	Water Contant	Water Cont	ent (inches)	ORAINAGE BASIN and/or SNOW COURSE	Data	Snow Depth	Water Content	Weter Conti	ent (inches)
NAME	of Survey	(inches)	(Inches)	Last Year	Average †	NAME	of Survay	(Inches)	(Inchas)	Last Year	Averege †
Brown Duck Ridge	4/25	70	27.7	21.5	20.2a	Lakefork Mountain	4/26	42	17.9	10.7	11.9
Currant Creek	5/3	13	5.1	5.9	2.3a	Mosby Mountain	4/26	47	18.7	11.9	9.9
Daniels-Strawberry	5/3	30	12.6	12.7	9.5	Paradise Park	4/26	49	20.9	18.8	14.3
Hewinta G.S.	4/25	31	11.9	9.0	10.4	Rock Creek Ranch	4/25	16	6.9	0.0	1.3 ^b
Hickerson Park	4/25	32	11.0	7.0	5.9a	Spirit Lake	4/25	50	20.7	15.3	15.5
Hole-in-the-Rock			- -			Steel Creek Park	4/25	59	22.3	14.2	18.7
Hole-in-the-Rock G.S.						Strawberry Divide	5/1	46	19.8	20.1	
Jackson Park	4/26	51	21.0	16.0		Trout Creek	4/25	38	13.7	9.9	
Kings Cabin Upper	4/25	42	16.6	9.8	10.3						
11						e - estimated					1
						1					1
											1
											1

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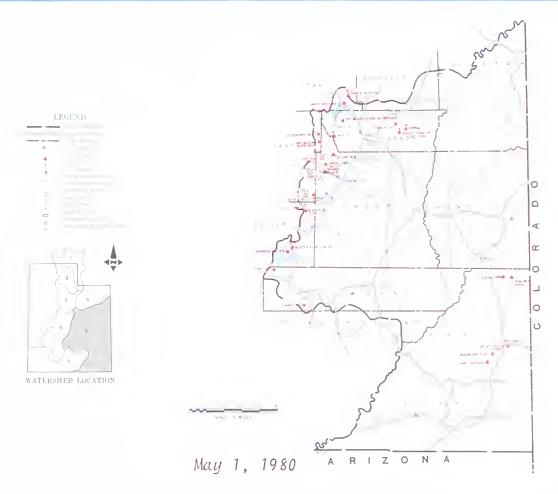
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TIMAT ALAS INTERNATIONS DE LA COMPANION DE LA

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 115% of the May 1 average on the Fremont River to 324% on the Blue Mountains above Monticello. Price River is 166%, San Rafael 154%, and LaSal Mountains 224%.

PRECIPITATION at mountain stations ranged from 68% of the April average at Indian Canyon to 158% at Orange Olsen.

SOIL MOISTURE improved as snow melt started at higher elevations.

RESERVOIR STORAGE is above average in Scofield and near average in Joe's Valley and Huntington North. Reservoirs are expected to fill as snow melt progresses.

STREAMFLOW FORECASTS range from 133% of the May-July average for Seven Mile Creek to 191% for the San Juan. Scofield Inflow is forecast 156%, Huntington Creek 155%, Cottonwood 154%, Ferron 184%, Muddy Creek 187%, and Mill Creek 181% of average. Water users in this area are expected to have better than average water supplies this year.

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

STREAMFLOW FORECASTS		THIS YEA	IR.	PAST	RECORD	SUMMARY OF SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)				
	FORE		FORECAST	THOUSANO		RIVER BASIN and or SUB-WATERSHED	Number of Courses	THIS YEAR AS	A PERCENT OF	
BASIN, STREAM end/or FORECAST POINT	Thousand Acre Fest	Percent of Average	PERIOO	Lest Yeer	Average +		Averaged	Lost Year	Average	
PRICE RIVER						PRICE RIVER	3	129	166	
Gooseberry Crk nr Scofield	13.0	138	May-July		9.4					
Scofield Reservoir Inflow	50	156	May-July		31	SAN RAFAEL RIVER	6	124	154	
Price nr Heiner ¹	78	150	May-July		52b					
		ŀ	1			FREMONT RIVER	3	74	115	
SAN RAFAEL RIVER						·				
Huntington Crk nr Huntington	65	155	May-July		45 ^b	LASAL MOUNTAINS	2	184	224	
Cottonwood Crk nr Orangeville	63	154	May-July		41 ^b					
Ferron Creek nr Ferron	59	184	May-July		32	BLUE MOUNTAINS	2	94	324	
MUDDY CREEK										
Muddy Creek nr Emery	29	187	May-July		15.5			İ		
UPPER COLORADO BASIN										
Colorado nr Cisco, Utah	4500	166	Apr-July		2835					
Green at Green River, Utah	4400	148	Apr-July		2839					
Mill Creek nr Moab	7.8	181	May-July		4.3 ^b		1			
Navajo Reservoir Inflow	1150	189	Apr-July		597					
San Juan nr Bluff, Utah	1650	191	Apr-July		853					
FREMONT RIVER						1 - Observed flow corrected for	change i	storage and	diversions	
Seven Mile Crk nr Fish Lake	7.6	133	May-July		5.7	2 - Provisional flows - Subject	to corre	tion		

RESERVOIR STORAGE (Thousand Acre Feet)

REZERADIK ZIOKARE (IP	ousand Acre Feet)					PEAK FLOWS		
	2555211212	Useble	U:	EABLE STORA	G E		PEAK FLOW (SEC	CONO FEET)
BASIN OR STREAM	RESERVOIR	Capecity	This Year	Last Year	Average	FORECAST POINT	Forecast Range	^
PRICE RIVER	Scofield	65.8	45.2	40.7	36.9	Ferron Creek near Ferron Muddy Creek near Emery	500-850 200-300	442 154
SAN RAFAEL	Huntington North Joe's Valley Mill Site	3.9 54.6 16.7	3.8 37.7 6.4	3.7 40.7 11.1	3.9 ^b 39.1 ^b 	naddy Greek Hear Emery		
SAN JUAN	Navajo	1696.0	1181.0	1247.8				
+ - 1963-77 15 1	Year Average Period							

NOW verage of all past record	Dete	Snow Depth	Water Content	Weter Conte	ECDRD ent (inches)	ORAINAGE BASIN and/or SNOW COURSE		THIS YEAR			ECORO ent (inches)
NAME	of Survey	(Inches)	(inches)	Last Year	Average †	NAME	Date of Survey	Snow Depth (Inches)	Weter Content (Inches)	Last Year	Average †
Buck Flat Buckboard Flat Camp Jackson Dills Camp Dry Valley Divide Alternate Huntington-Horseshoe	5/2 4/24 4/24 5/2 5/3 5/2	54 51 52 37 10 70	23.9 20.1 21.7 15.0 3.6 31.9	19.9 22.0 22.3 11.1 5.6 30.0	15.4 7,1 5.8 9.9a 	Mammoth-Corronwood R.S. Monticello City Park Mud Creek Seeley Creek White River #1 White River #3	5/3 4/24 5/2 5/2 5/3 5/3	51 0 34 53 27 0	22.2 0.0 13.1 23.7 10.8 0.0	25.0 0.0 9.6 20.5 15.4 0.0	19.1 7.9 17.2 10.5 1.0b

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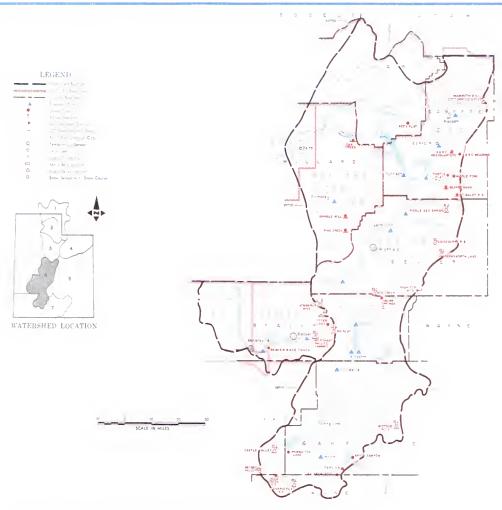
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TIRST ALAS III

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



THE WATER SUPPLY OUTLOOK IS EXCELLENT

SNOW COVER ranges from 110% of the May 1 average on the Lower Sevier to 172% on the South Fork Sevier. The East Fork is 152% of average and the Beaver River 173%.

PRECIPITATION at mountain stations ranged from 56% of the April average at Gooseberry Reservoir to 158% at Widtsoe #3. Most stations received less than average moisture.

SOIL MOISTURE improved as snow melt began at higher elevation stations.

RESERVOIR STORAGE is above average and all reservoirs are expected to fill.

STREAMFLOW FORECASTS range from 108% on Chalk Creek to 341% for Sevier below Piute Dam. The Sevier is forecast 250% at Hatch, 313% at Circleville, 318% at Kingston, 337% for the East Fork, and 205% at Gunnison. Clear Creek is forecast 170%, Salina Creek 154%, Chicken Creek 188%, Oak Creek 200%, Ephraim Creek 152%, and Pleasant Creek 135% of the April-July average. Beaver River is forecast 183%, North Creeks 183%, and Minersville Inflow 315% of average.

All water users are expected to have better than average water supplies this season.

STREAMFLOW FORECASTS		THIS YEA	R	PAST	RECORO	SUMMARY OF SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)				
	FORE	ECAST	FORECAST	THOUSAND	· ·	RIVER BASIN and or SUB-WATERSHED	Number of Courses	THIS YEAR AS	A PERCENT OF	
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Faet	Percent of Avarage	PERIOD	Last Yaer	Average †	THE COURT OF THE C	Averaged	Lost Year	Average	
SEVIER RIVER			1			UPPER SEVIER RIVER	8	75	164	
Sevier at Hatch	88	250	May-July		35	East Fork Sevier	3	87	152	
Sevier nr Circleville	72	313	May-July		23	South Fork Sevier	6	71	172	
Sevier nr Kingston	54	318	May-July		16.9		-			
Antimony Crk nr Antimony	10.5	185	May-July		5.7b	LOWER SEVIER	10	96	110	
East Fork Sevier nr Kingstonl	35	337	May-July		10.5					
Sevier below Piute Dam	91	341	May-July		27	BEAVER RIVER	3	90	173	
Clear Crk nr Sevier (abv Div)	26	170	May-July		15.3					
Inflow					1 1					
Kingston to Vermillion Dam	95	190	Apr-June		50					
Vermillion Dam to Gunnison	60	171	Mar-June		35					
Salina Creek at Salina	16.0	154	May-June		10.4					
Sevier nr Gunnison	78	205	May-July		38					
Chalk Creek nr Fillmore	14.2	108	May-July		13.1		-			
Chicken Creek nr Levan	4.5	188	May-July		2.4					
Oak Cr. nr Oak City	2.0	200	May-July		1.0ъ					
SAN PITCH RIVER										
Ephraim Creek nr Ephraim	20	152	May-July		13.2 ^b					
Pleasant Crk nr Mt. Pleasant	10.7	135	May-July		7.9 ^b 1					
BEAVER RIVER						1 - Observed flow corrected for	change i	n storage an	d diversion	
Beaver nr Beaver	33	183	May-July		18.0	2 - Provisional flows - Subject	to corre	ction		
North Creek (Combined)	22	183	May-July		12.0b			1		
Minersville Reservoir Inflow	17.0	315	May-June		5.4	PEAK FLOWS				

		Usabla		SEABLE STOR	A G E		PEAK FLOW (SI	ECONO FEET)
BASIN OR STREAM	RESERVOIR	Capacity	This Year	Last Year	Averaga†	FORECAST POINT	Forecast Range	Average †
SEVIER RIVER	Gunnison	18.2	18.2	17.2	14.9	Sevier River at Hatch	875-1000	
	Otter Creek	52.5	49.2	43.7	39.5	Sevier River nr Circleville		
	Piute	71.8	50.1	45.4	47.1	Sevier River nr Kingston	750-850	
	Sevier Bridge	236.0	192.9	123.9	144.6	Clear Creek nr Sevier	375-450	
						Salina Creek nr Salina	600-800	
BEAVER RIVER	Minersville (Rky	23.3	19.9	17.9	15.3	Beaver River nr Beaver	350-550	212
	Fd)					E Fk Sevier nr Kingston	725-825	
b - Average of	all past record - 1	ess than	15 years	5				
+ - 1963-77 15	Year Average Period							
e - Estimated	1	ļ	I					

NOW		THIS YEAR			ECORD	SNOW		THIS YEAR		PAST F	ECORD
DRAINAGE BASIN and/or SNOW COURSE	Deta of Survey	Snow Depth (Inches)	Water Content		ent (inches)	ORAINAGE BASIN and/or SNOW COURSE	Date	Snow Depth	Water Content	Water Cont	ent (inches)
NAME	of Survey	(Inches)	(Inches)	Last Yeer	Average †	NAME	of Survey	(inches)	(Inches)	Lest Year	Average 1
	/ /20	70	20. 1	20.2	10 6		- //	1.0	, ,	00.0	
Big Flat	4/30	79	29,1	30,2	18,6	Harris Flat	5/4	12	4.4	20.2	2.1
Bryce Canyon	5/5	0	0.0	2.9	~~	Kimberly Mine	4/30	50	21.2	22.4	15.8
Castle Valley	4/30	34	13.4	22.2	7.2	Long Valley Junction	5/3	0	0.0	0.0	0.0
Duck Creek	5/4	39	18.1	25.4	7.8	Merchants Valley Upper	4/30	35	14.1	15.8	5.9t
Farnsworth Lake	4/30	61	24.1	22.4	22.2	Midway Valley	5/4	77	36.6	42.2	21.5
Gooseberry R.S.	5/4	16	5.1	6.2	10.2	Otter Lake	4/30	51	19.9	24.4	12.1
,	,					Pickle Keg Springs	5/4	40	17.8	16.7	15.1 ^t
						Widtsoe-Escalante #3	5/4	37	16.3	21.2	9.0
		1									
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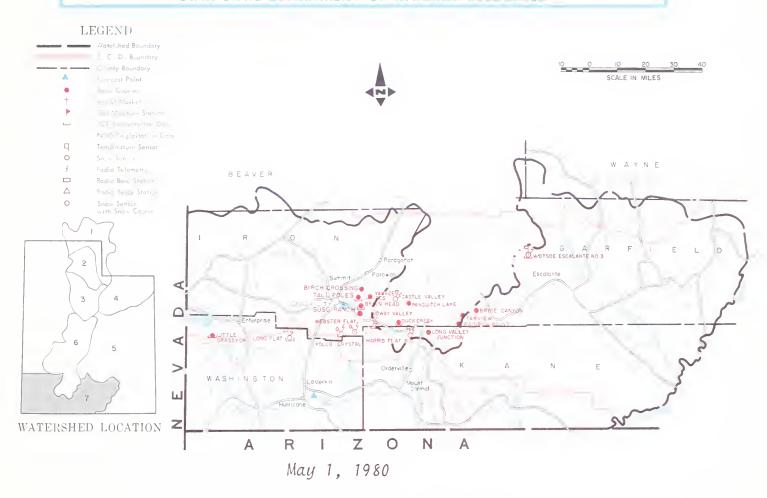


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EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOLUTES



THE WATER SUPPLY OUTLOOK IS EXCELLENT

SNOW COVER ranges from 72% of average for the Enterprise-New Harmony area to 195% for Coal Creek. Virgin River is 191% of average Parowan Creek is 127%.

PRECIPITATION at mountain stations ranged from 42% at Webster Flat to 80% at Yankee Reservoir.

SOIL MOISTURE at higher elevations is improving as the snow melts. Lower elevation soils are losing moisture.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 132% of average on the Santa Clara to 267% for the Virgin near Hurricane. Coal Creek is forecast 162% and the Inflow to Lake Powell is 155%.

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

STREAMFLOW FORECASTS		THIS YEA	R	PAST	RECORD	SUMMARY OF SHOW MEASUREMENTS (COMPARISON WIT			
		CAST	FORECAST	THOUSAND	7	RIVER BASIN and or SUB-WATERSHED	Number of Courses	THIS YEAR	S A PERCENT OF
BASIN, STREAM end/or FORECAST POINT	Thousand Acra Feat	Percent of Avarage	PERIOO	Last Year	Avarage +		Averaged	Last Year	Average
VIRGIN KIVEK						COAL CREEK	3	85	195
Virgin nr Hurricane	80	267	May-June		30	VIRGIN RIVER	2	97	191
Santa Clara nr Pine Valley	5,0	132	May-June		3,8	PAROWAN CREEK	4	88	127
COAL CREEK							4	00	127
Coal Creek nr Cedar City	23	162	May-July		14,2	ENTERPRISE - NEW HARMONY	2		72
UPPER COLORADO									
Lake Powell Inflow	10800	155	Apr-July		6881				
2 - Provisional Flows - Subject	to cor	ection	1						
					-				

DEAK ELRWS

RESERVOIR STORAGE (Thousand Acre Feet)

		Usabla	US	EABLE STORAG	E
BASIN OR STREAM	RESERVOIR	Capacity	This Year	Lest Year	Averaga
COLORADO	Lake Powell	25002.0	21569.0	17380.0	
	Blue Mesa	829.5	352.1	274.0	
- Average of a	ll past record - le	ss than	l5 vears		
_	ar Average Period	ı			
		ĺ			

	PEAK FLOW (SECOND FEET)						
FORECAST POINT	Forecast Range	Average					
Coal Creek nr Cedar City	500-600						
Virgin nr Hurricane	1500-1700						
	1						

NOW		THIS YEAR		PAST R	ECORO	SNOW		THIS YEAR	PAST RECORD		
ORAINAGE BASIN end/or SNOW COURSE	Oete	Snow Depth		Water Content (inches)		ORAINAGE BASIN end/or SNOW COURSE	Oeta	Snow Oseth	Water Content	Water Content (inches)	
NAME	of Survey	(inches)	(Inches)	Lest Year	Average +	NAME	of Survey	(inches)	(Inches)	Lest Year	Averaga
irch Crossing	4/30	0	0.0	0,0	2,5b	Long Valley Junction	5/3	0	0.0	0.0	0.0
ian Head	4/28	63	28.0	32.6	20,8b	SUSC Ranch	4/30	8	2,7	11.5	2.5
rris Flat	5/4	12	4.4	20.2	2.1	Tall Poles	4/30	42	17.3	18.8	12.
lob-Crystal	4/29	81	34.8	38.9	22.5a	Webster Flat	4/29	62	34.4	32.7	13.
ttle Grassy	4/29	0	0.0	0.0	0.2	Yankee Reservoir	4/30	25	8.8	10.4	7.
ng Flat	4/29	5	1.8	0.0	2.3						
		l									
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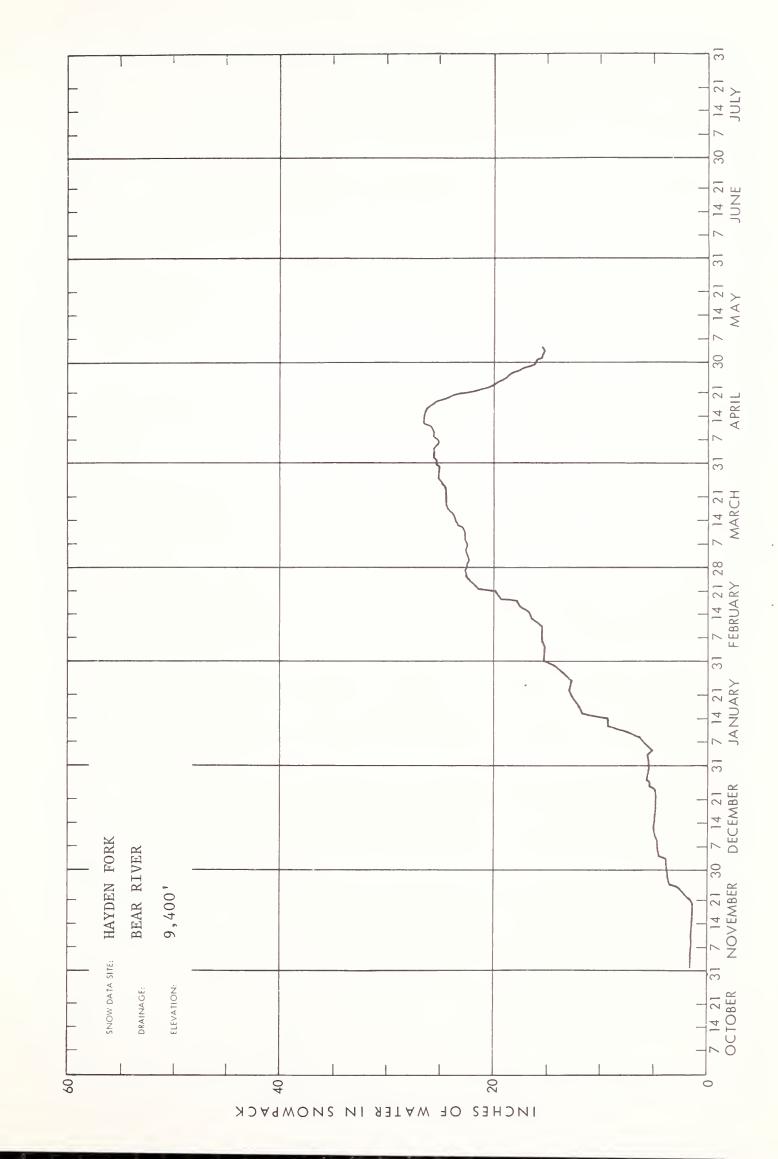


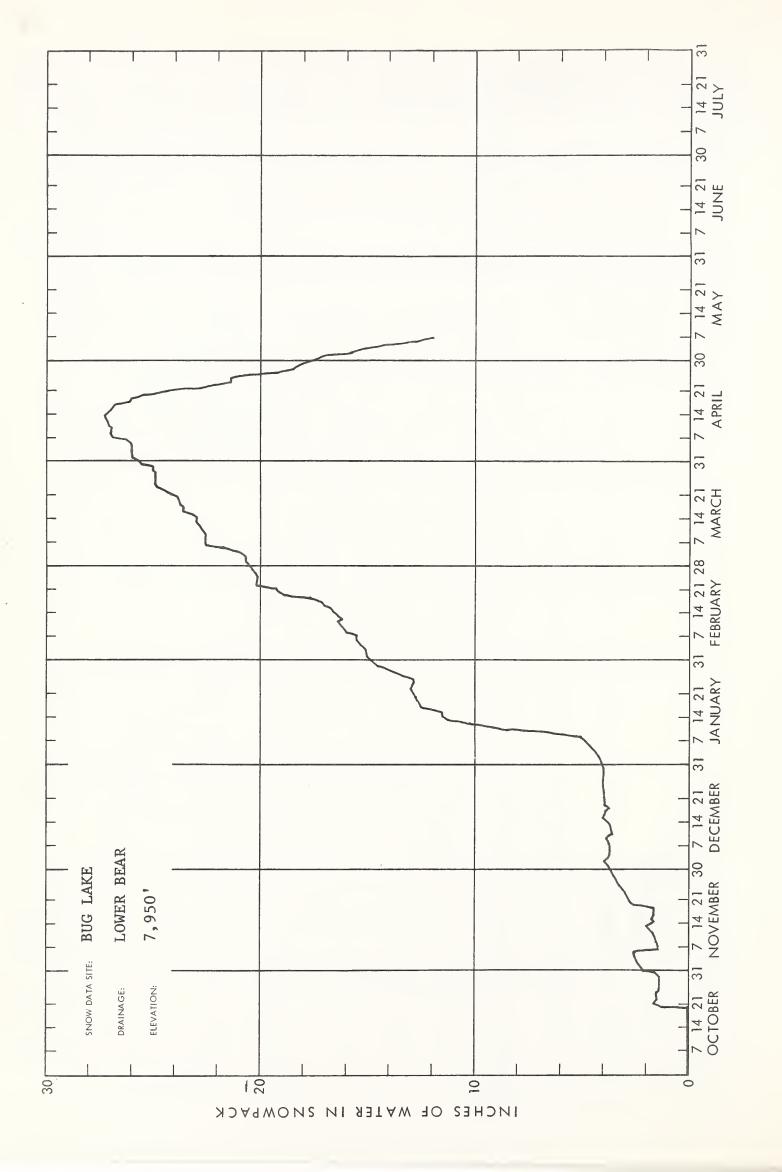
DRAINAGE BASIN and/or SNOW COURSE	Date	THIS YEAR	Water Content	1	RECORD (inchas)	PRECIPITATION (Inches) CURRENT INFORMATION FROM APPROX OCT 1 TO DA					
NAME	Data of Survey	(Inches)	(Inchas)	Last Yaer	Average †	Date of Reading	Menth's Precipitation	Average	This Year	Average +	Percent of Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Big Park Burts-Miller Ranch	5/1 4/25	43 5	18.8	17.8	22.7	4/25	0.40	2.66 ^b	13.35	14.66 ^b	91
CCC Camp Hayden Fork	4/29	14 39	5.4	8.4	10.4	4/25	2.30	4.08b	26.92	24.14	112
Monte Cristo R.S. Salt River Summit	4/28 4/29	53 27	25.5	24.7	27.6	4/28	2.14	5.22	32.61	31.17 19.76	105
Stillwater Camp Lily Lake	4/25	29	11.4	6.1	10.2 ^b	4/25	1.60	3.40	19.91	15.79	126
LOWER BEAR RIVER	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										
(Below Harer, Idaho) Bug Lake	4/28	40	17.4	19.1	19.2ª	4/28	1.30e		25.90e		
Cub River R.S. Emigrant Summit	4/28 4/30	0 41	0.0	0.0	0.0						
Franklin Basin	4/28	49	23.0	24.8	27.0a	1.100					0.1
Garden City Summit Klondike Narrows	4/28	37 28	15.9	18.1	18.5	4/28 4/28	1.50 1.82b	3.10 3.75 ^b	21.39 26.83	22.33 27.60 ^b	96 101
Little Bear (lower) Little Bear (upper)	4/28 4/28	0	0.0	0.0	2.1	4/28	1.50e		30.00e		
Slug Creek Divide	4/30	19	17.9			1, 20	1,300		301000		
Steep Hollow #1 Steep Hollow #2	4/28	74 44	35.5	38.6	40.8						
Tony Grove Lake Tony Grove R.S.	4/28	69	34.4	34.4	37.6 ^a 3.8	4/28	1.48		24.85		
Willow Flat	4/28	6	2.3	10.2	5.5b	4/28	1.71	4.62 ^b	28.18	27.51	10
OGDEN RIVER											
Beaver Creek-Skunk Creek Ben Lomond Peak	4/28 4/28	13 84	4.5	7.4	7.1						
Ben Lomond Trail	4/28 4/28	22	9.1	15.4	7.7b	4/28 4/28	1.14	5.38b 2.42	44.74	34.12b	13 12
Causey Dam Dry Bread Pond	4/28	43	19.4	19.3	19.0	4/28	2.40e	4.44 ^b		25.28	
Sagebrush Flat	4/28	0	0.0	0.0	0.0	4/28	1.18	2.48b	22.11	16.83	13.
WEBER RIVER	4.725	10	4.8	0.0	1.3						
Beaver Creek R.S. Chalk Creek #1	4/25 4/25	62	26.3	20.4	25.4	4/25	2.80e		33.00e		
Chalk Creek #2 Chalk Creek #3	4/.25 4/25	39 14	16.2	11.3	15.3	4/25 4/25	1.90e 2.00	3.45b	21.20e 19.60	17.39 ^b	11
East Shingle Lake (A) Farmington Canyon (lower)	5/5 4/28	68 53	30.6 22.4	27.8 29.7	22.5	4/28	0.99	6.29 ^b	35.04	33.92	10
Farmington Canyon (upper)	4/28	71	32.4	35.1	33.3			6.16 ^b		33.24 ^b	
Farmington G.S. Horse Ridge Kilfoil	4/28	39	18.7	20.0 14.2	20.8 ^b 10.3 ^b	4/28 4/28	1.09 1.95	4.74b	28.61 32.11	28.38	8 11
Lost Creek Reservoir Park City Summit	4/28 4/28 5/7	34	0.0	0.0	0.0 ^b	4/28	0.89		17.34		
Parley's Canyon Summit	4/29	45 32	22,7	11.6	14.6	4/29	2.70	5.03	28.89	27.58	10
Pine Canyon Redden Mine (lower)	4/28	40 49	16.1 19.8		18.3	4/25	2.05		23.58		
Sargeant Lakes (A) Smith & Morehouse	5/5 4/25	13 32	5.8 12.3	14.0 7.1	10.0	4/25	1.85	4.26	23.79	22.01	10
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide Camp Altamont	4/25 4/29	20 28	8.7	3.8	8.7 ^a	4/25	1.60e		22.70e		
Clear Creek Ridge #1	5/3	47	13.8 19.4	12.5 19.1	7.7 17.7	5/3	2.60e		29.80e		
Clear Creek Ridge #2 Clear Creek Ridge #3	5/3	0	5,Qe 0.0	13.4	10.5			3.31		19.37	
Dutchman R.S. Hobble Creek Summit	4/29 5/3	41	20.0	13.8	9.8	4/29	1.25	4.17b	34.10	24.99	136
Payson R.S.	5/3	15 31	5.8 12.4	13.5 16.6	7.7	5/3	2,08	3.20	27.71	20.39 21.53	136
Soapstone R.S. South Fork R.S.	4/25 4/29	25 0	9.2	5.6 	7.9	4/25	1.60	3.57	22.62	19.79	114
Timpanogos Cave Camp Timpanogos Divide	4/29 4/29	0	0.0	0.0		1.100					
Trial Lake	4/25	75	34.2 32.1	24.0 25.0	22.0 26.1	4/29 4/25	1.15 2.35	4.30	41.85	29.39 28.73	142 122
											1

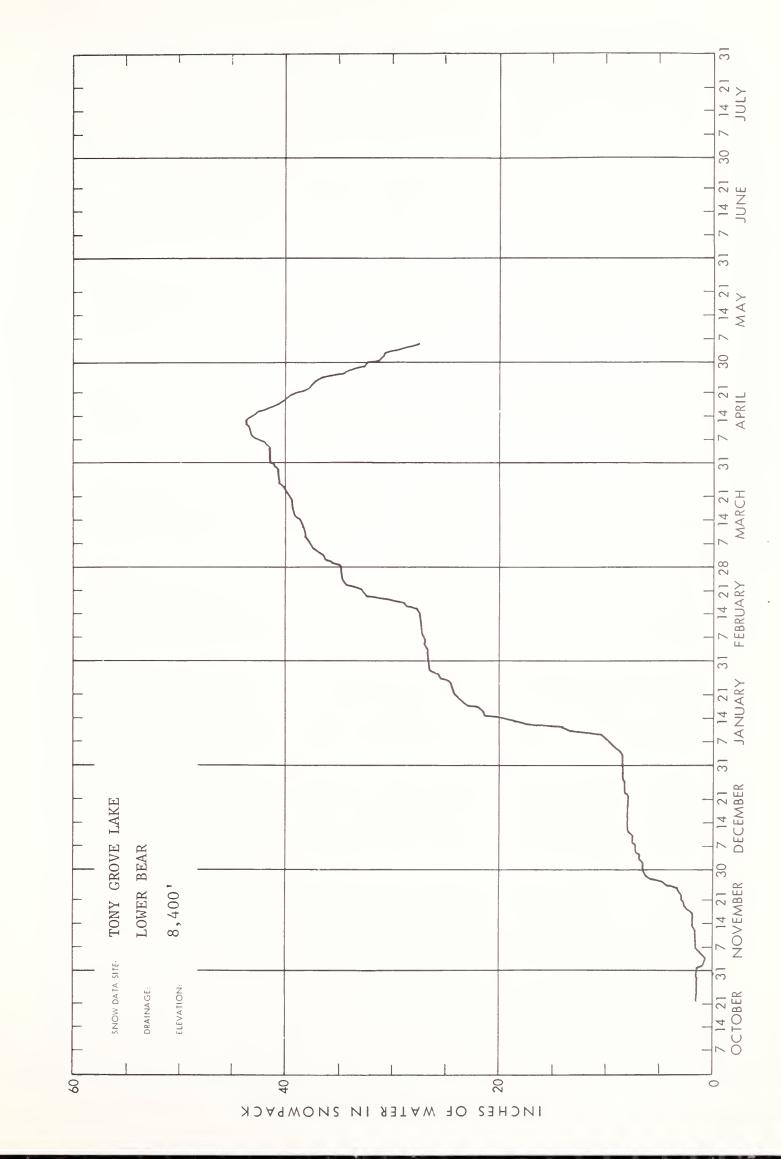
IOW		THIS YEAR		PAST R		PRECIPITATION (Inches			FROM APPROX. OCT 1 TO DAT			
DRAINAGE BASIN and/or SNOW CDURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Conte	nt (inchas)	Date of Reading	Month's Precipitation	Avarage +	This Year	Average +	Percent of Average	
							l					
JORDAN RIVER & GREAT SALT LAKE												
Bevan's Cabin	4/29	3	1.5	3.6	5.9							
Deseret Peak	4/30	74 21	34.0 8.2	24.9		5/1	2.30		23.79			
Lamb's Canyon #2 Middle Canyon	5/1 4/29	14	6.4	12.5	10.4	4/29	3.20	4.28b	36.00	20.20	178	
Mill Creek	5/1	45	18.8	19.5	10.4	4/29	3.20	4.20-	30.00	20.20	170	
Mill D South Fork	4/29	33	14.8	14.6	16.2							
Mtn. Dell Dam	1,25	33	1	1		İ						
Rocky Basin-Settlement Can.	5/2	71	33.2	27.8	30.2	5/2	4.80		41.62			
Silver Lake (Brighton)	4/29	62	37.8	31.4	27.6							
Snowbird (Gad Valley)			1	42.0								
Vernon Creek	4/30	13	6.5	13.0	4.0 ^b	4/30	1.70	2.58 ^b	25.40	17.85	142	
TOTAL GENERAL PROPERTY.								}				
UPPER SEVIER RIVER												
(South of Richfield, Utah)												
Box Creek	5/4	40	16.1	17.6	12.1	5/4	3.45	2.99	23.49	16.88	1.39	
Bryce Canyon	5/5	0	0.0	2.9			3.43		23.47	10.00	137	
Castle Valley	4/30	34	13.4	22.2	7.2	4/30	2.82	3.24	23.59	17.13	138	
Duck Creek R.S.	5/4	39	18.1	25.4	7.8	5/4	1.74		33.37			
Farview	5/6	15	6.3	10.7		İ						
Harris Flat	5/4	12	4.4	20.2	2.1	5/4	0,80e		22.30e			
Kimberly Mine	4/30	50	21.2	22.4	15.8	4/30	3.58	4.44b	28.19	22.61	125	
Midway Valley	5/4	77	36.6	42.2	21.5	5/4	1.91	- -	31.71			
Panguitch Lake	4/30	0	0.0	6.5	0.8	4/30	1.43	1.50	12.99	9.39	138	
Rainbow Point	5/6	23	10.6	17.0	j							
Squaw Springs	5/4	19	6.7	6.2	4.6							
LOWER SEVIER RIVER]											
Including San Pitch River)												
	j											
Beaver Dams	5/2	13	4.8	11.5	7.4	5/2	3.24	3.27	22.64	16.34	139	
Farnsworth Lake	4/30	61	24.1	22.4	22.2	4/30	2.94	4.69	28.79	24.25	119	
G.B.R.C. Headquarters	5/2	47	20.0	20.4	16.1	5/2	3.45	4.26	30.44	22.55	135	
G.B.R.C. Majors						5/6	1.25	2.15 ^b	18.20	10.66	171	
G.B.R.C. Meadows	5/2	72	30.7	28.8	25.1	5/2	4.22	5.17	35.20	26.84	131	
G.B.R.C. Oaks	- /.					5/6	1.50	3.01	21.03	14.88	141	
Gooseberry R.S.	5/4	16	5.1	6.2	10.2	5/4	2.66	3.61	20.30	16.52 ^b	123	
Mammoth-Cottonwood Creek	5/3	51	22.2	25.0	19.1 12.8 ^b							
Middle Fork	5/2	75	33.0	33.8	24.2	5/2	3.52	3.93	29.49	20.83	142	
Mt. Baldy R.S. Oak Creek	5/1	37	14.8	33.0	9.6 ^b	5/1	3.52	3.93	28.99	20.03	142	
Pickle Keg Springs	5/4	40	17.8	16.7	15.1b	5/4	4.70e		29.60e			
Pine Creek	5/4	34	13.6	14.8	13.6	5/4	5.30	5.88	28.55	29.35	97	
Ree's Flat	5/4	28	9.9	9.7		5/4	2.88		25.43			
Shingle Mill	5/1	3	1.1	0.0	3.2 ^b	5/1	3.30	3.87 ^b	31.60	19.55	152	
Thistle Flat												
EAVER RIVER												
Beaver Canyon Power House				0.0								
Beaver Race Track	1.10-	7.0	00.	20.0	10 (1.100	0.61	2.30	20.00	10.83	1/0	
Big Flat	4/30	79	29.1	30.2	18.6	4/30	2.64	3.47	28.29	19.00	149	
Merchant's Valley (upper)	4/30	35 51	14.1	15.8	5.9 ^b	4/30	1.99	2.96b	23.99	17.21	139	
Otter Lake	4/30	21	19.9	24.4	12.1							
AROWAN												
Birch Crossing	4/30	0	0.0	0.0	2.5 ^b							
Brian Head	4/28	63	28.0	32.6	20.8 ^b							
Tall Poles	4/30	42	17.3	18.8	12.3 ^b	4/30	2.20	3.48b	28.60	18.37 ^b	156	
Yankee Reservoir	4/30	25	8.8	10.4	7.0	4/30	2.42	3.01	19.85	15.14	131	
NTERPRISE TO NEW HARMONY												
RAINAGES TO NEW HARPONT												
Little Grassy Creek	4/29	0	0.0	0.0	0.2	4/29	1.08	1.80	25.14	16.29	154	
Long Flat	4/29	5	1.8	0.0	2.3	4/29	1.20	2.27	22.80	13.90	164	
COAL CREEK												
Cedar City Golf Course					0.0b							
SUSC Ranch	4/30	8	2.7	11.5	2.5b	-						
Jobo Italicii				1								

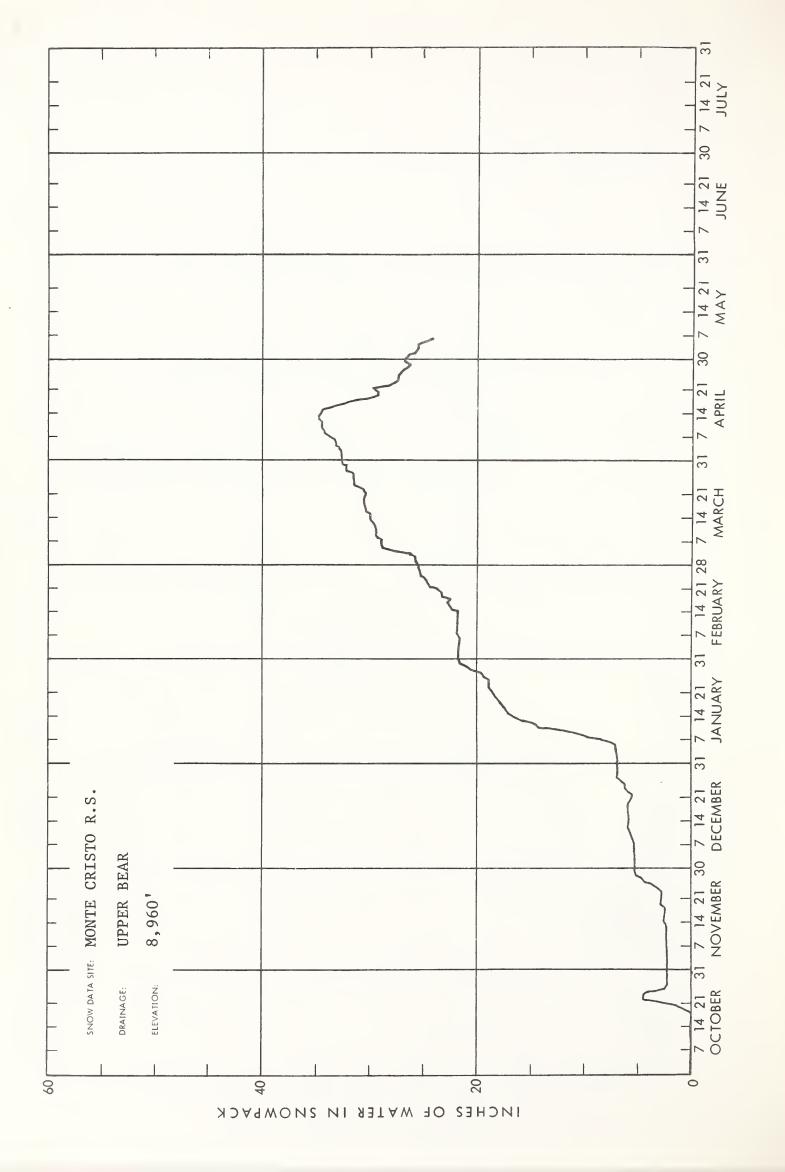
NOW	THIS YEAR			1	RECORD (Inchas)	PRECIPITATION (Inches) CURRENT INFORMATION FROM APPROX. OCT 1					TODATE
DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †	Date of Reading	Month's Precipitation	1. +	This Year	Average +	Percent of Average
	1	<u> </u>	T					Ī	T		
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A) Black's Fork G.SEast Fork Black's Fork Junction Buck Pasture (A)	5/5 4/25 Not Mea 5/5	58 32 sured 36	26.1 12.0	15.3 7.6 5.3 15.3	16.4 ^b 9.9 8.7	4/25	2.40	3.35	17.71	15.29 14.70	116
Burnt Creek Dutch John Junction Grizzly Ridge Hewinta G.S. Hickerson Park King's Cabin (upper)	4/28 4/28 4/28 4/25 4/25	1 0 33 31 32	0.1 0.0 13.3 11.9	9.0	10.4 5.9b	4/28 4/25 4/28 4/25 4/25	2.35 2.50e 2.00 2.08a 2.55	3.06 ^b 3.25 ^b 3.59 3.56 ^b	14.40	16.69 ^b 16.15 12.97	122 129 115 111
Reynold's Park (A) Spirit Lake	4/25 5/5 4/25	42 51 50	16.6 23.0 20.7	9.8 20.3 15.3	10.3	4/25	1.65	2.95 4.94 ^b	19.19	19.21	135
Steel Creek Park Trout Creek	4/25 4/25	59 38	22.3	14.2	18.7	4/25	2.25	4.94	20.10	10.55	110
Henry's Fork (A)	5/5	40	16.8	10.8	11.0 ^b				20.10		
DUCHESNE RIVER											
Atwood Lake (A) Brown Duck Ridge Chepeta-Whiterocks	5/5 4/25 4/26	27 70 48	12.2 27.7 17.6	13.9	20.2a	4/25	1.95		28.75		
Currant Creek Currant Creek Daniels-Strawberry Summit East Portal Five Points Lake (A)	5/3 5/3 5/1 5/5	13 30 21 45	5.1 12.6 8.0 20.2	18.6 5.9 12.7 6.8 14.4	14.9b 2.3b 9.5 4.4b	5/3 5/3 5/1	1.53 2.05 1.08	2.41 ^b 3.28 2.99 ^b	23.84	16.20 21.09 19.72	147 150
Indian Canyon Jackson Park	5/3 4/26	31	12.8	16.9	10.9	5/3 4/26	1.81	2.68	22.21	15.46	144
Lakefork Basin (A) Lakefork Mountain	5/5 4/26	59 42	26.6	21.0	11.9	4/26	1.85	3.08	20.37	15.70	130
Lakefork Mountain #3 Lightning Lake (A) Mosby Mountain Paradise Park Rock Creek Ranch Strawberry Divide	4/26 5/5 4/26 4/26 4/25 5/1	18 72 47 49 16 96	7.6 32.4 18.7 20.9 6.9 19.8	2,4 23.1 11.9 18.8 0.0 20.1	2,1 9.9 14.3 1.3 ^b	4/26 4/26 4/26	2.15 2.40 1.85	3.18 ^b 3.91 2.27	21.65 20.30 18.97	15.18 16.96 13.20	142 120 144
PRICE RIVER											
Dry Valley Divide Alternate Gooseberry Reservoir Mud Creek White River #1 White River #3	5/3 5/2 5/3 5/3	10 34 27	3.6 13.1 10.8 0.0	5.6 9.6 15.4 0.0	7.9 10.5 1.0 ^b	5/3 5/2 5/3	2.03 2.52 2.12	3.60 2.96 2.84	31.80 25.17 21.07	21.71 17.21 16.06	146 146 131
SAN RAFAEL RIVER		j		0.0	1.0						
Buck Flat Huntington-Horseshoe Orange Olsen Red Pine Ridge	5/2 5/2 5/2 5/2	54 70 0 45	23.9 31.9 0.0 19.5	19.9 30.0 0.0 15.9	15.4 14.8	5/2 5/2 5/2	3.02 1.78	3.24 1.13 ^b	28.68	20.45	140
Seeley Creek R.S. Stuart R.S. Upper Joe's Valley Wrigley Creek	5/2 5/2 5/2 5/2 5/2	53 14 26 32	23.7 6.0 10.6 13.3	20.5 0.8 8.0 13.4	17.2 1.8 5.7 8.1	5/2	3,26	2.15		23.39	123
MUDDY RIVER											
Black's Fork Dill's Camp	5/2 5/2	36 37	15.1 15.0	14.4	9.9a	5/2	2,89	~~	23.23		
REMONT RIVER	, -		13.0	11.1	J. Ja	3/2	2,09		23.23		
Black's Flat-U.M. Creek Fish Lake Johnson Valley	5/4 5/4 5/4	32 10 16	12.5 3.8 5.1	11.8 11.3 5.9	8.8 5.4 4.4	5/4		2.65		14,75	137 252

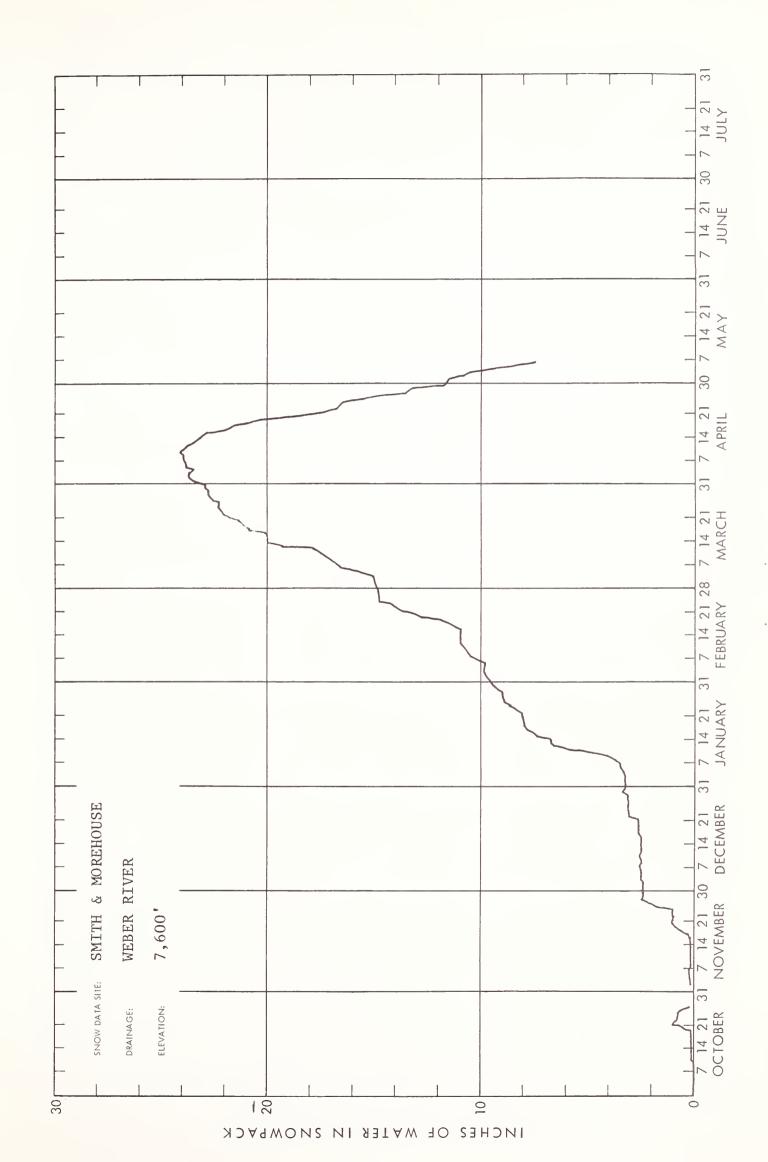
DW COMMAGE BASIN THE SHOW COMME		THIS YEAR			ECORD ont (inches)	PRECIPI	RENT INFORM	(Inches)		PPROX. OCT	TO DATE
DRAINAGE BASIN and/or SNOW COURSE NAME	Data of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †	Date of Reading	Month's Precipitation	Avarage +	This Year	Average +	Percent
	Ì						Ì				
OUTHEASTERN UTAH DRAINAGES											
Buckboard Flat Camp Jackson LaSal Mountain (lower)	4/24 4/24 4/28	51 52 32	20.1 21.7 12.2	22,0 22,3 8,4	7,1 5.8 4,3	4/24 4/24	2,92 1.80	2.75 2.42		20,89	103 109
LaSal Mountain (upper) Monticello City Park	4/28	58 0	25.6	22.2	12,6	4/28	2,92	2,99	28.00	17.17	163
SCALANTE RIVER											
Widtsoe-Escalante #3	5/4	37	16.3	21.2	9.0	5/4	4,97	3.14	24.83	15,21	163
IRGIN RIVER											
Kolob-Crystal Long Valley Junction Webster Flat	4/29 5/3 4/29	81 0 62	34.8 0.0 34.4	38.9 0.0 32,7	22,5a 0.0b 13,8	4/29	1.58	3,81	37,90	23.08	164
a - Partly estimated b - Average of past record + - 1963-77 15 year average (A) - Aeríal marker reading	in averag	ge period	- less	than 15	years						

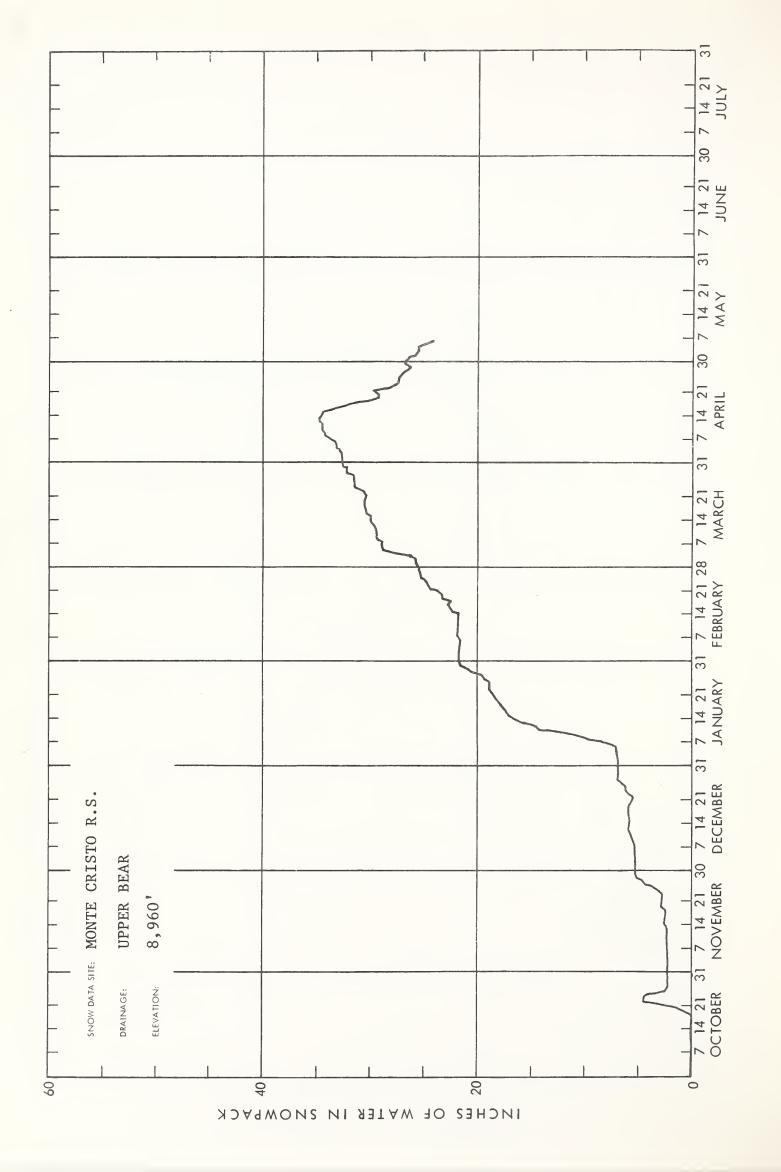


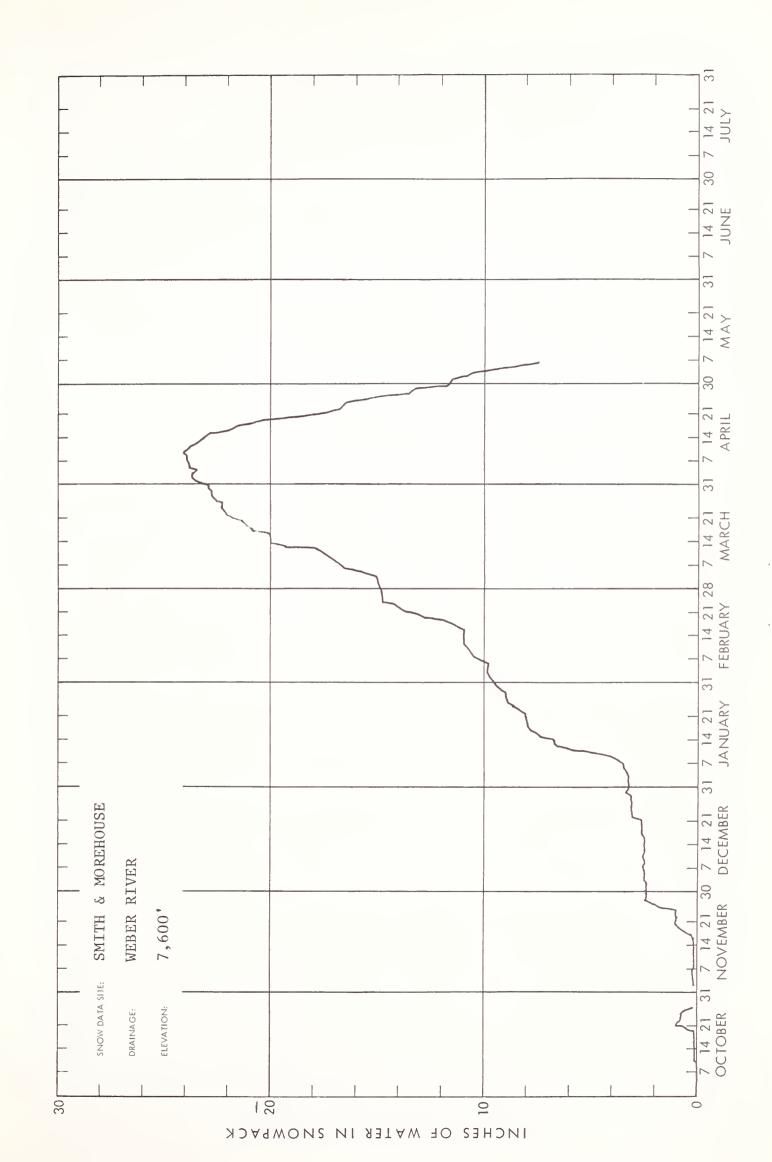


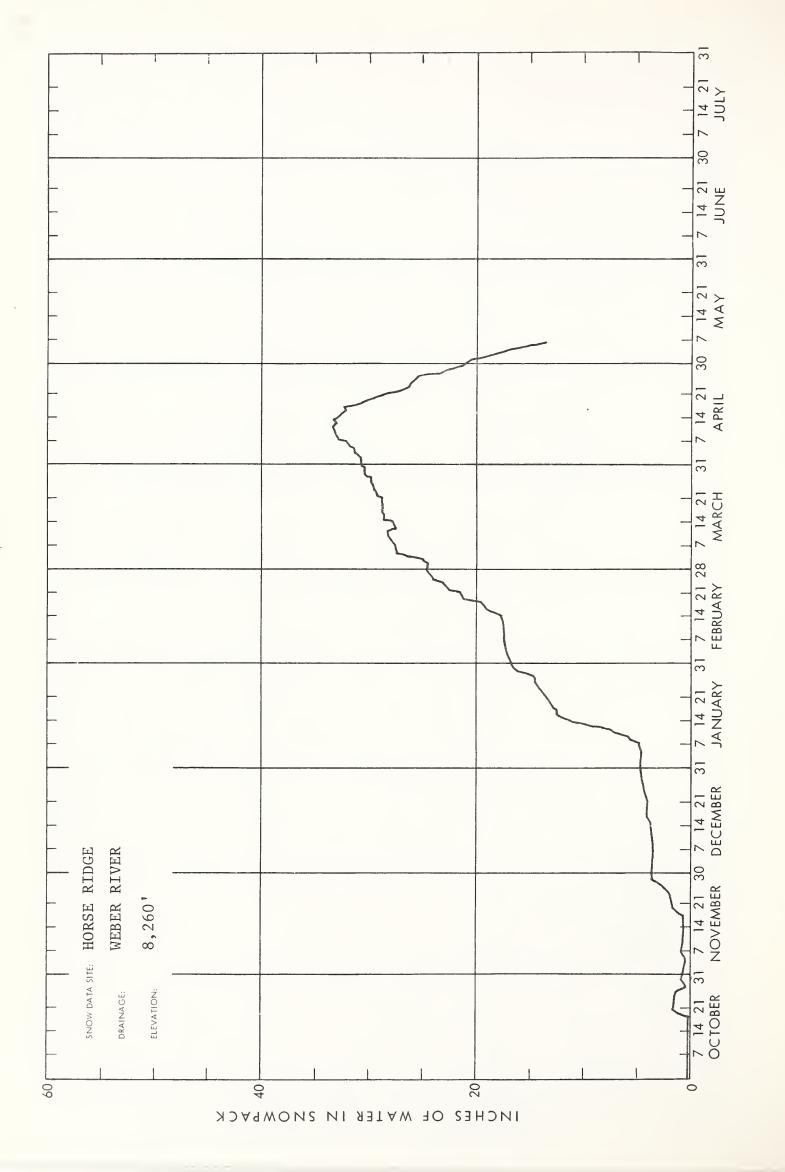


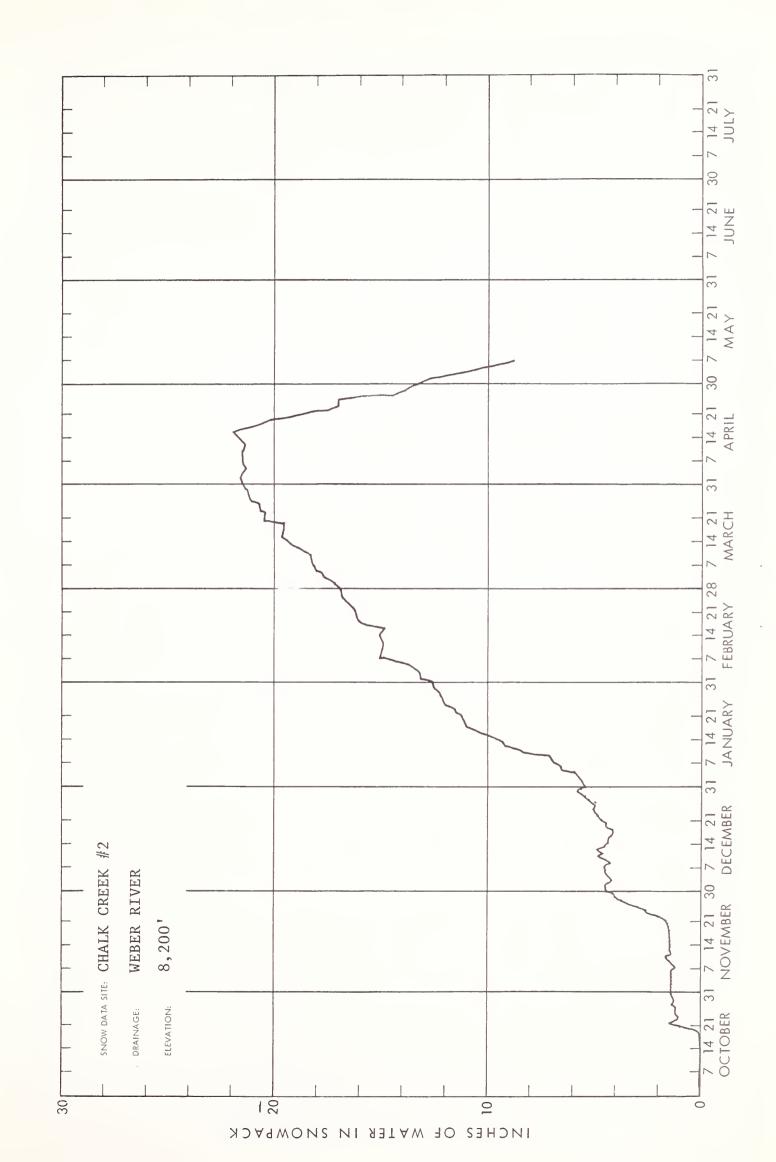


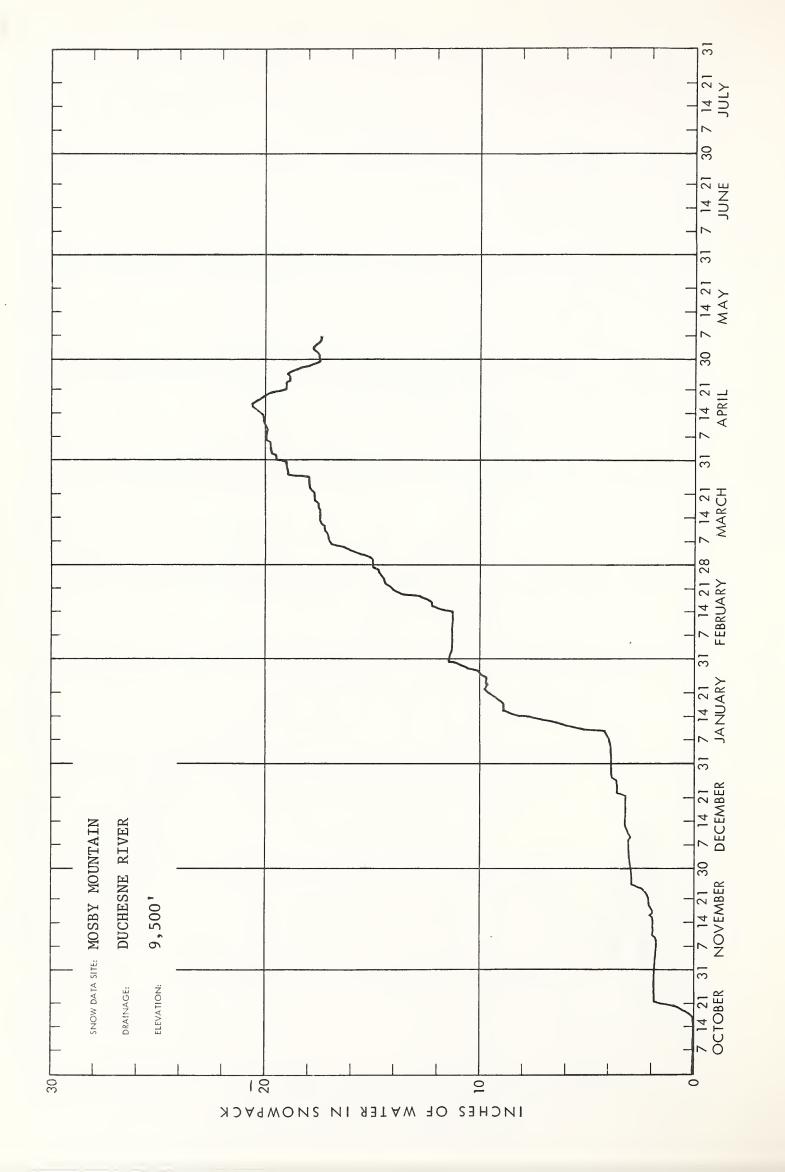


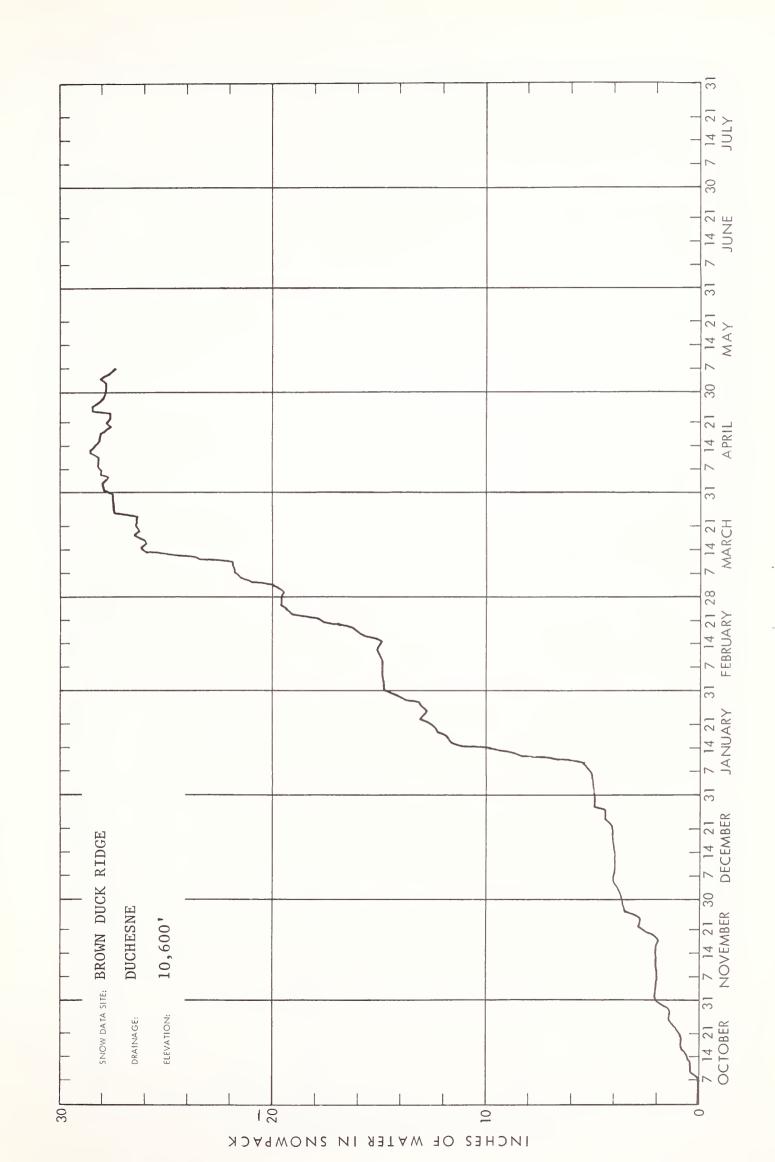


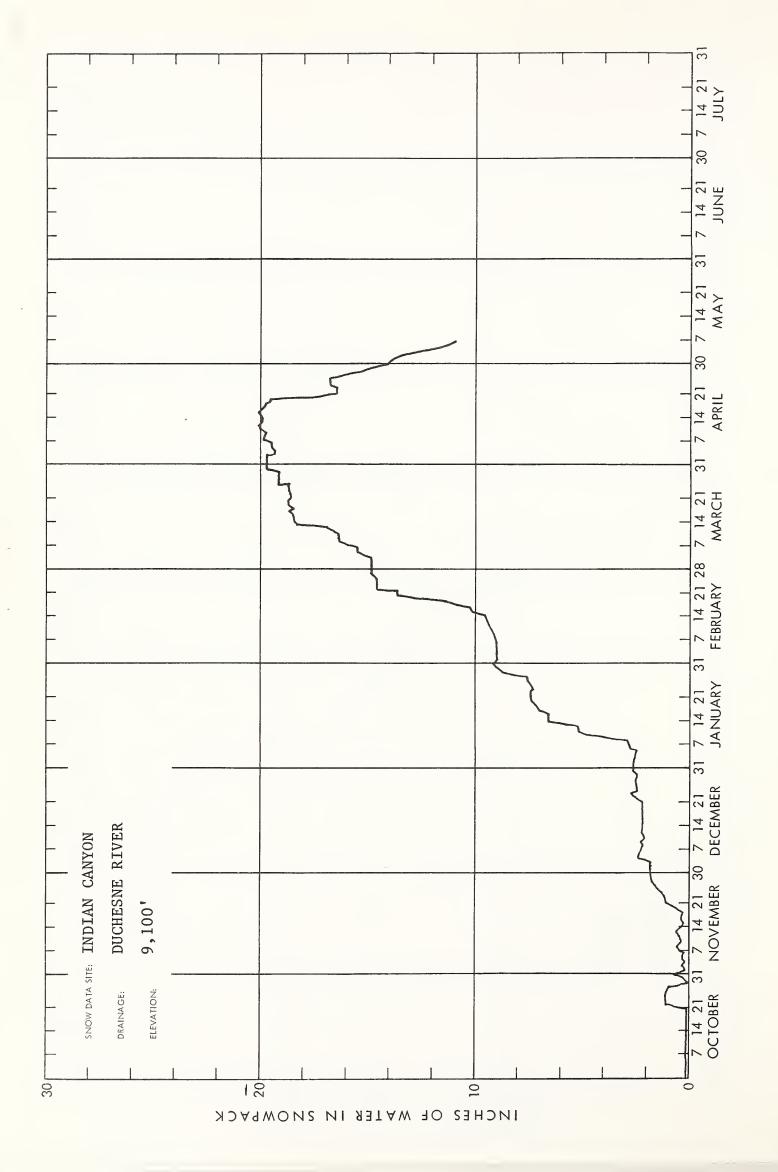


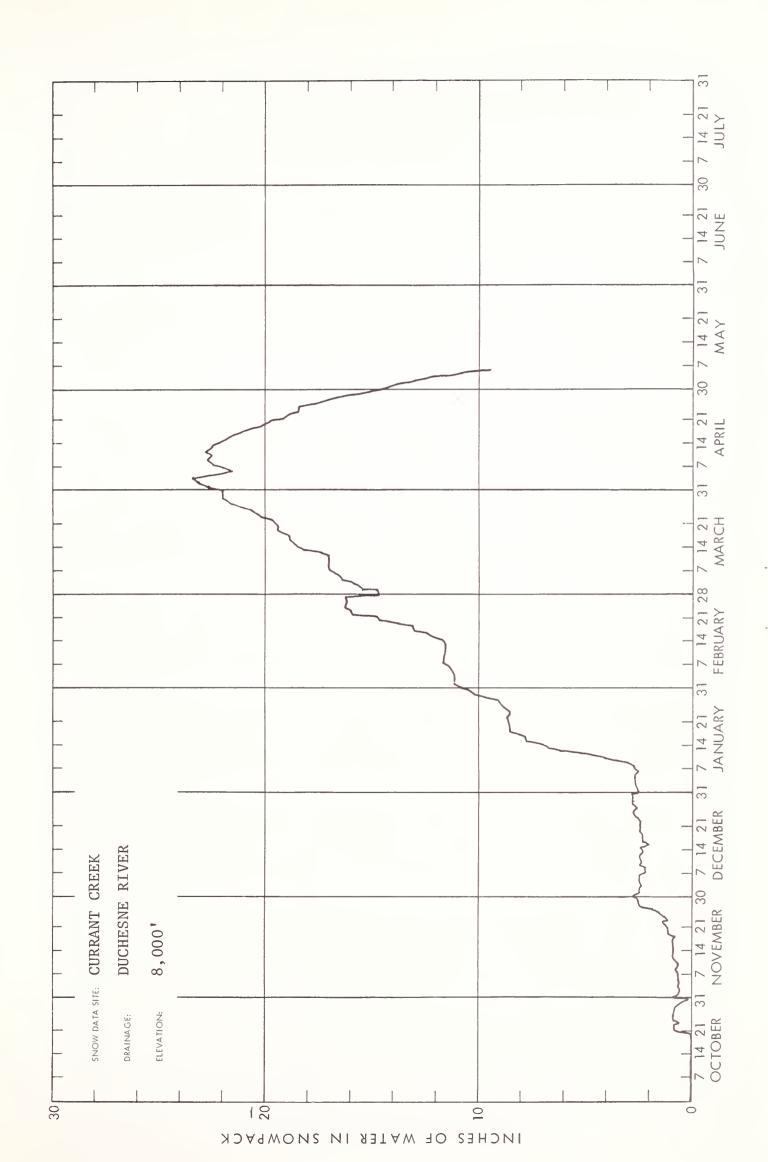


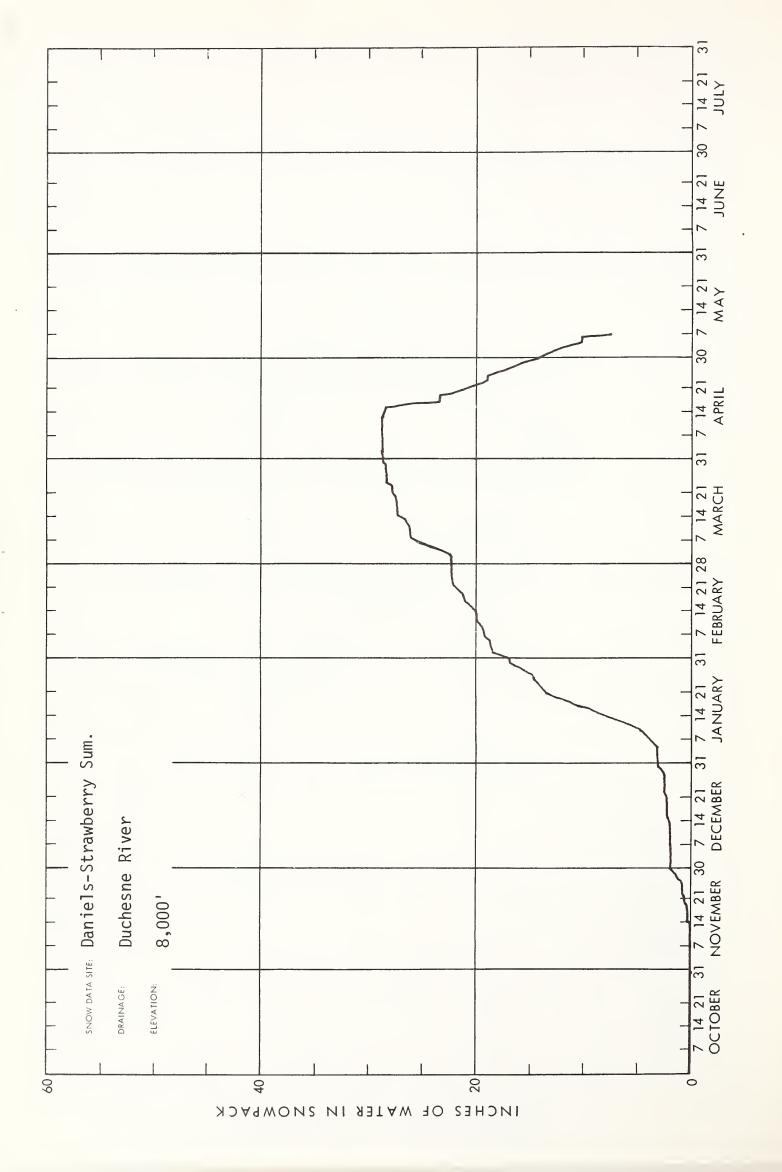


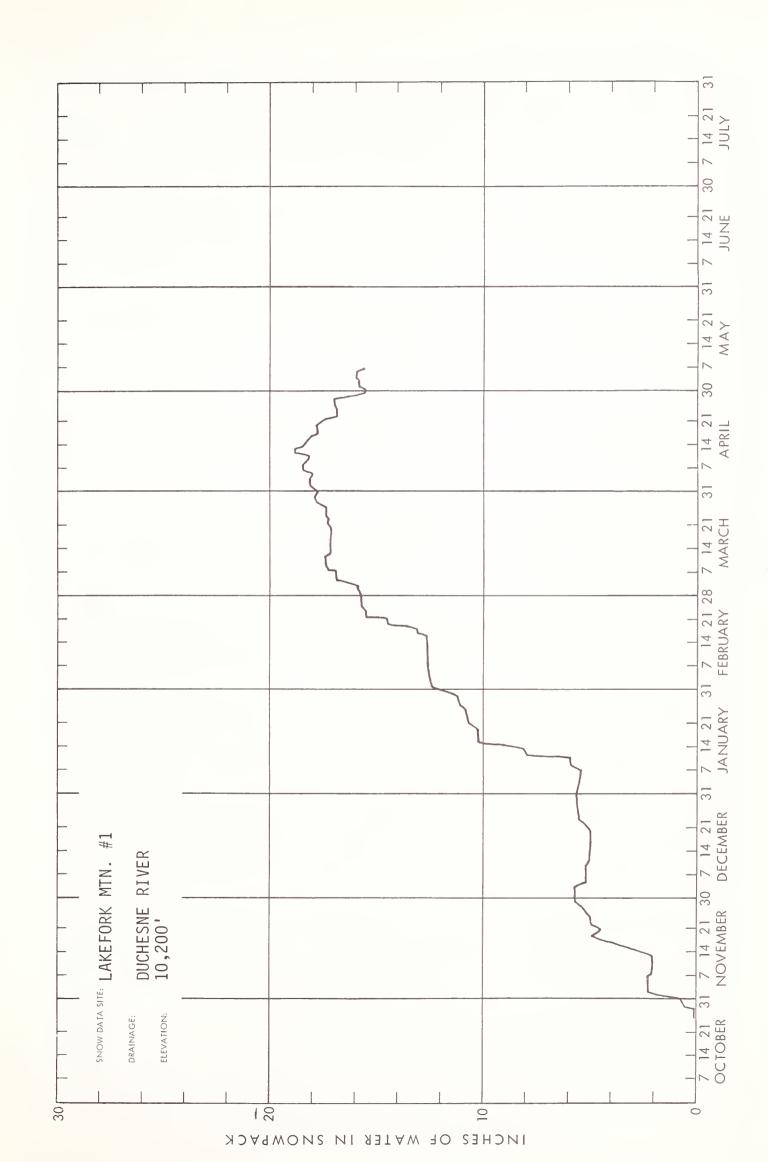


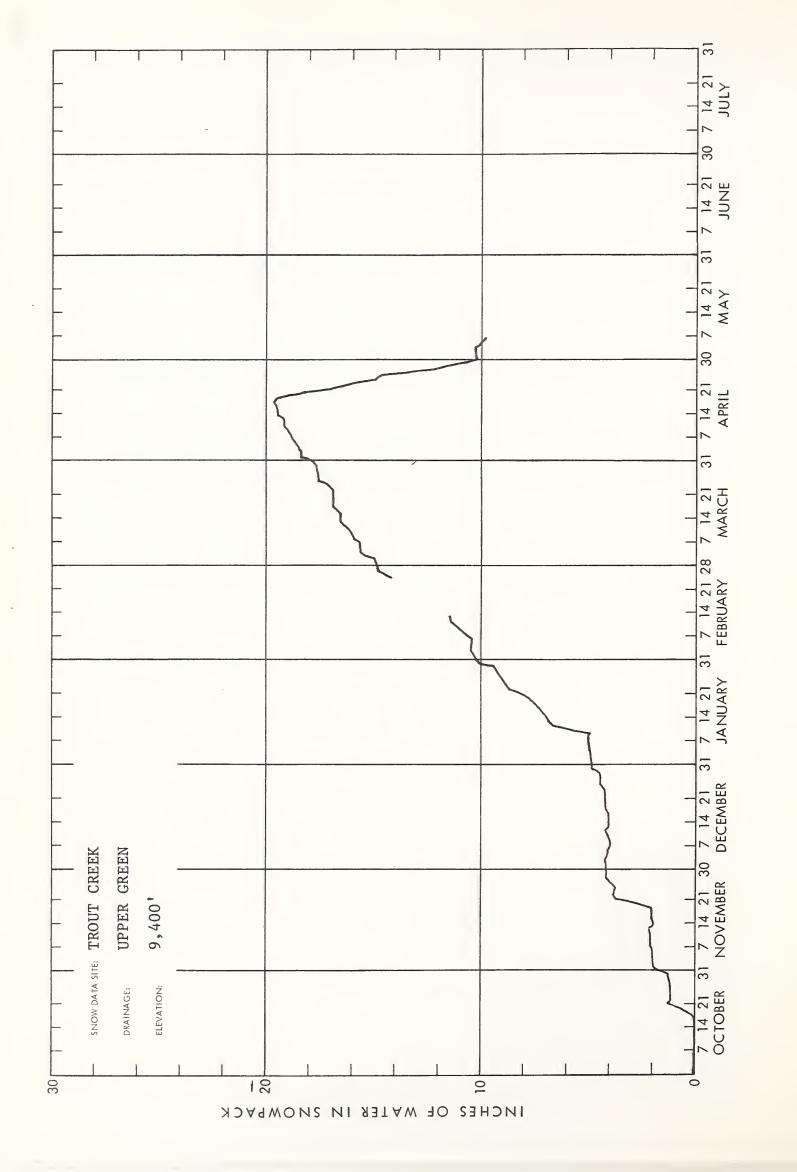


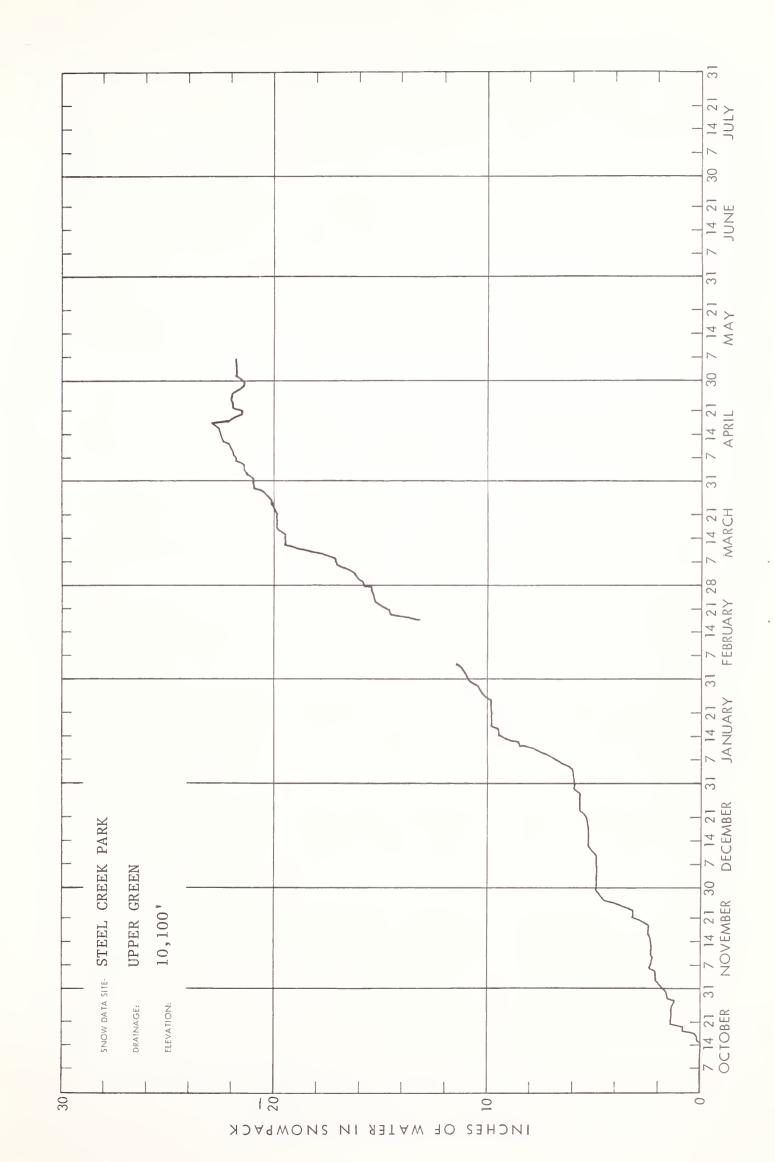


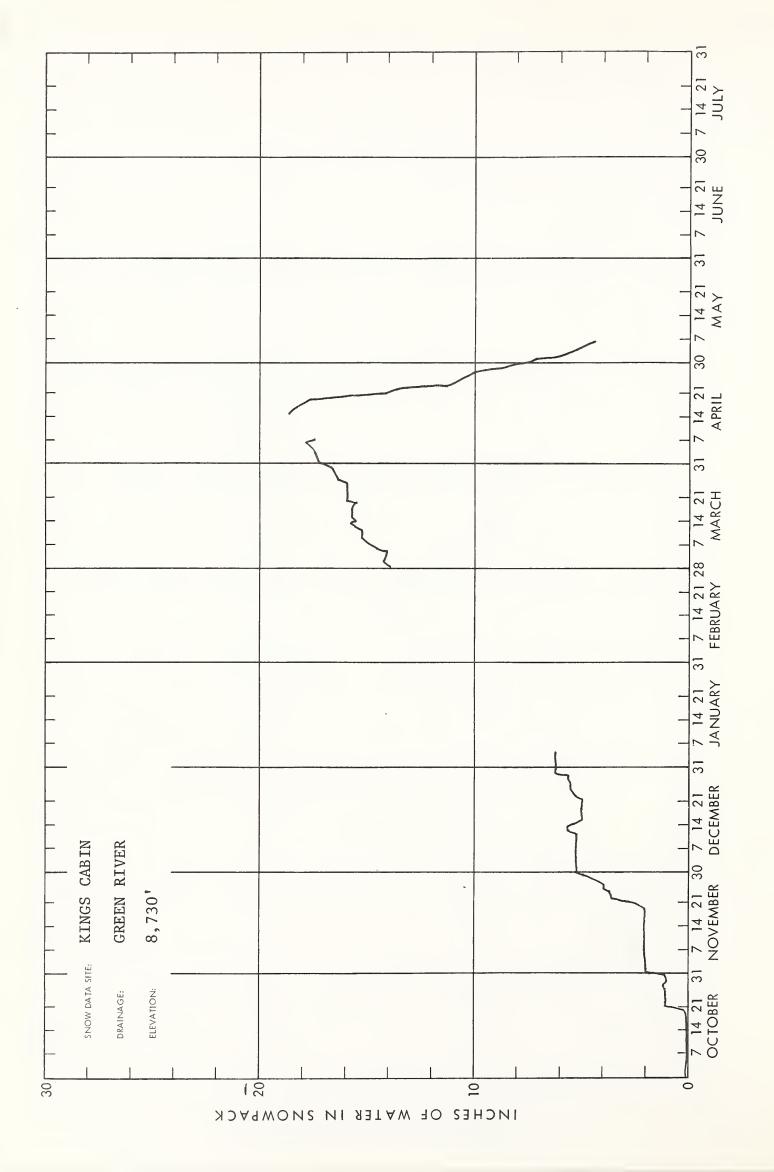


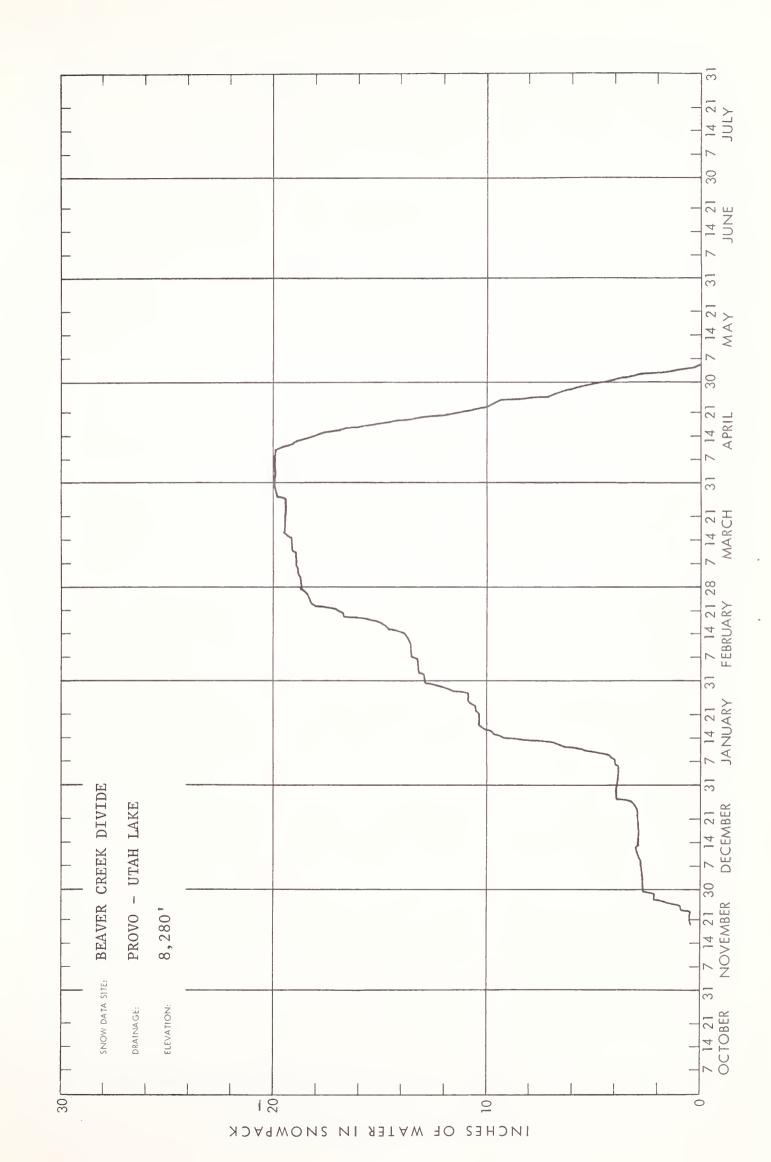


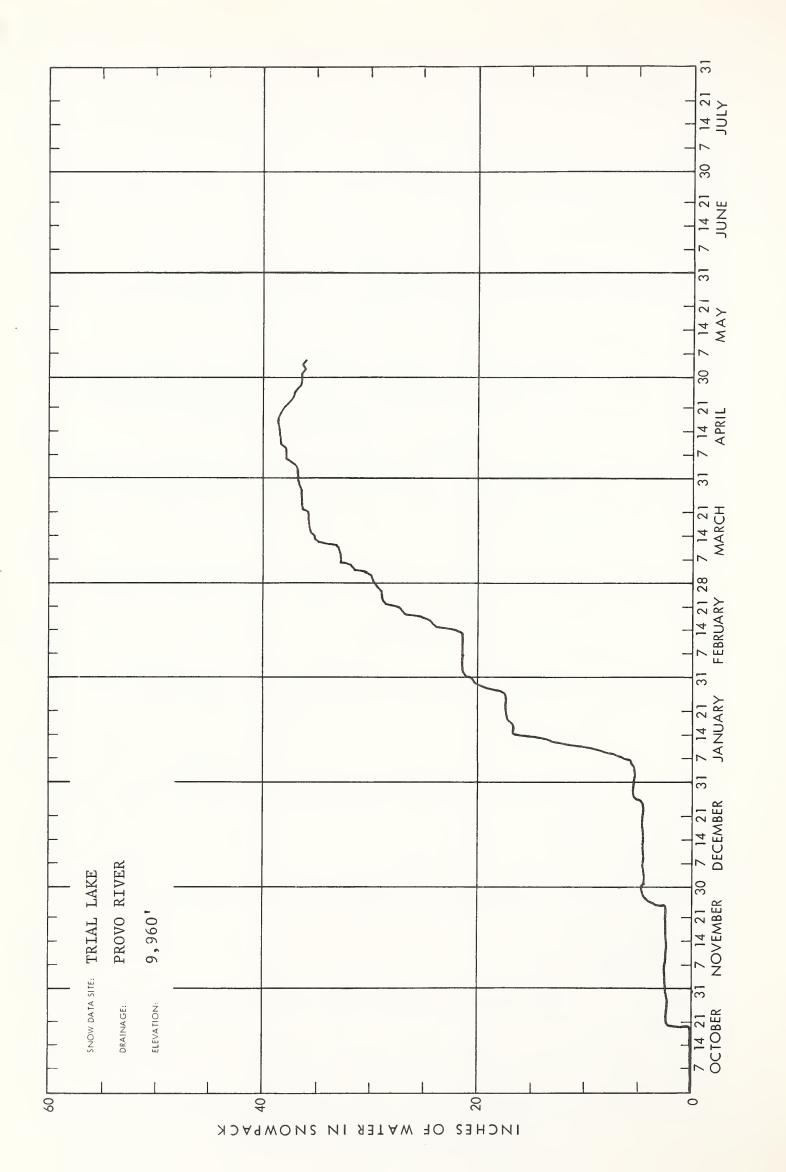


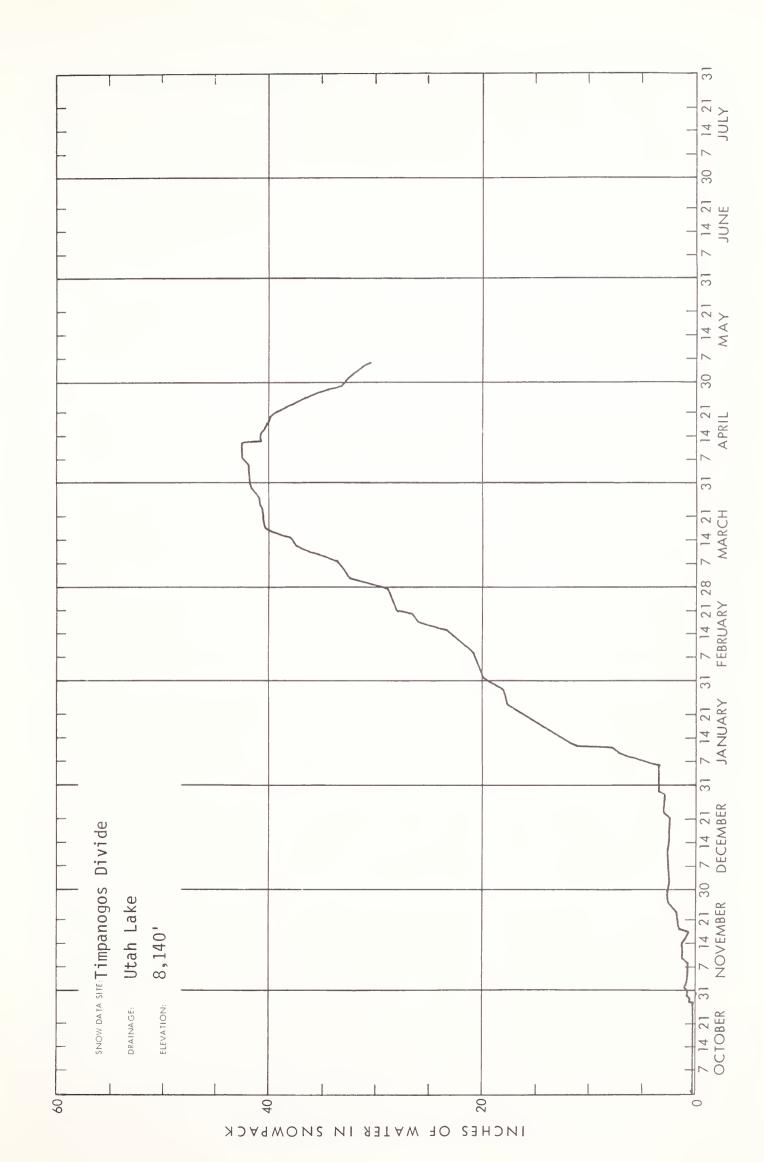


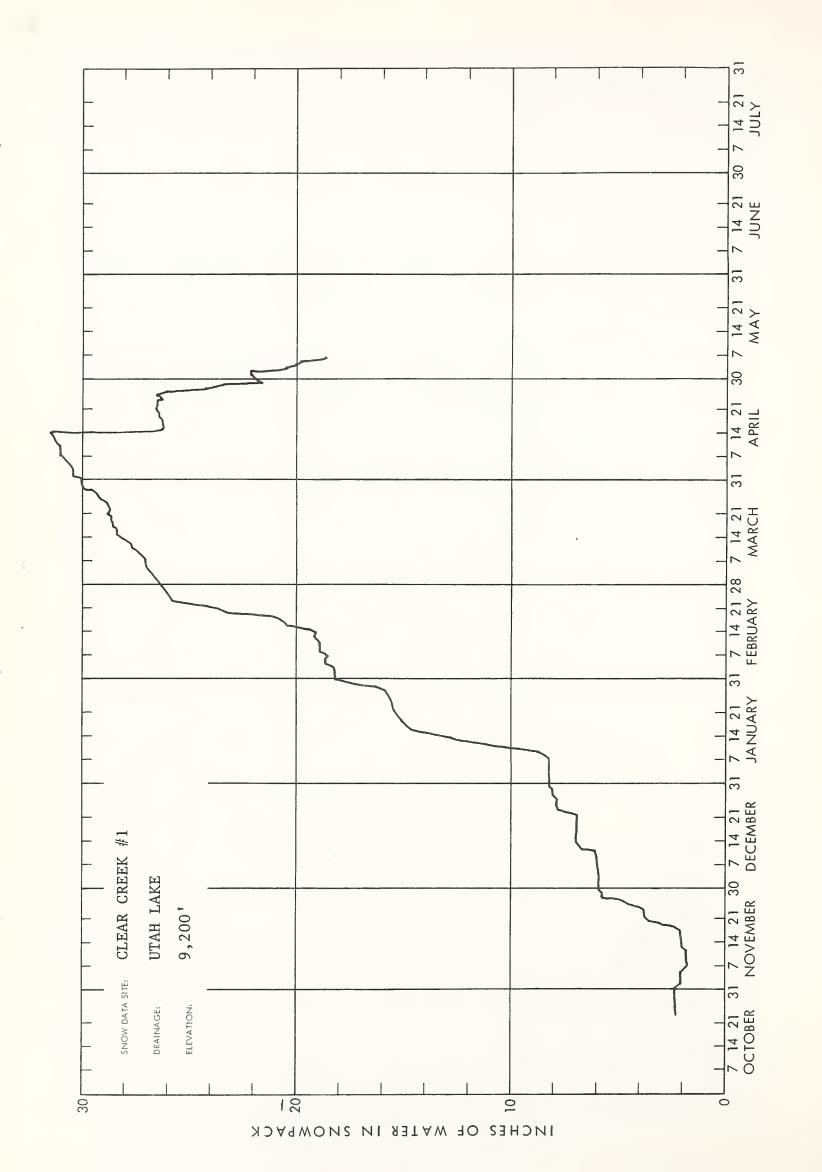


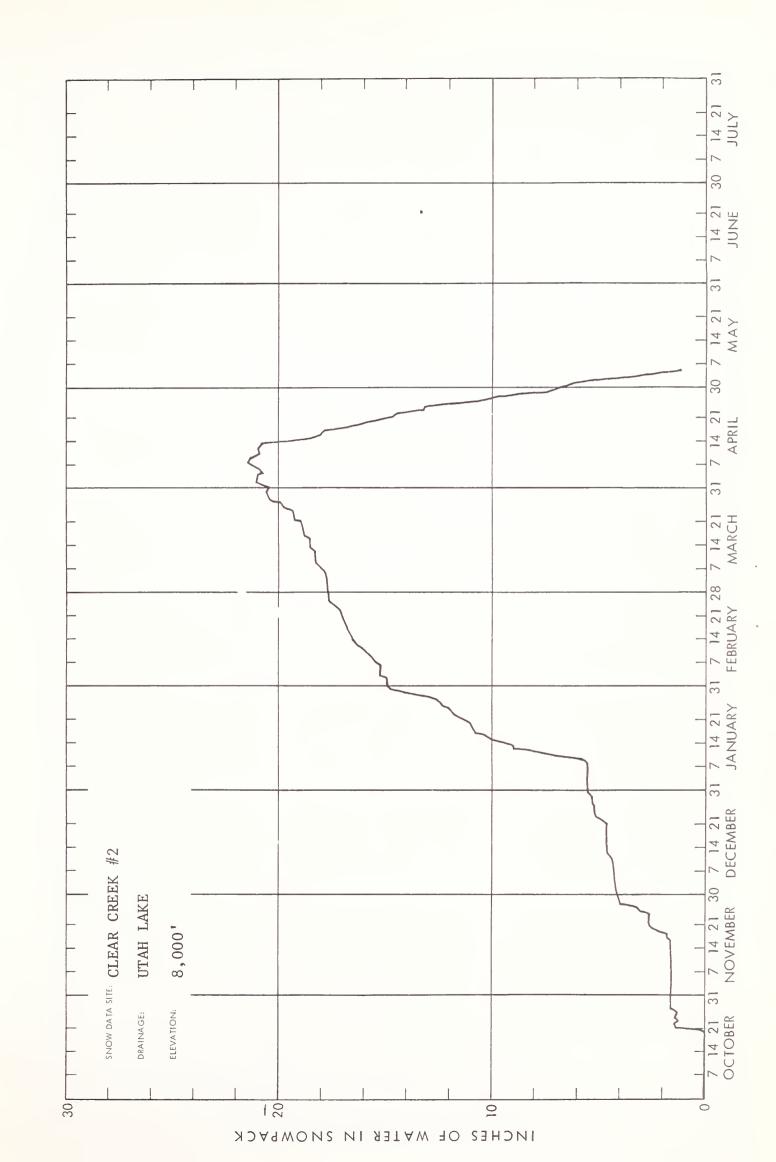


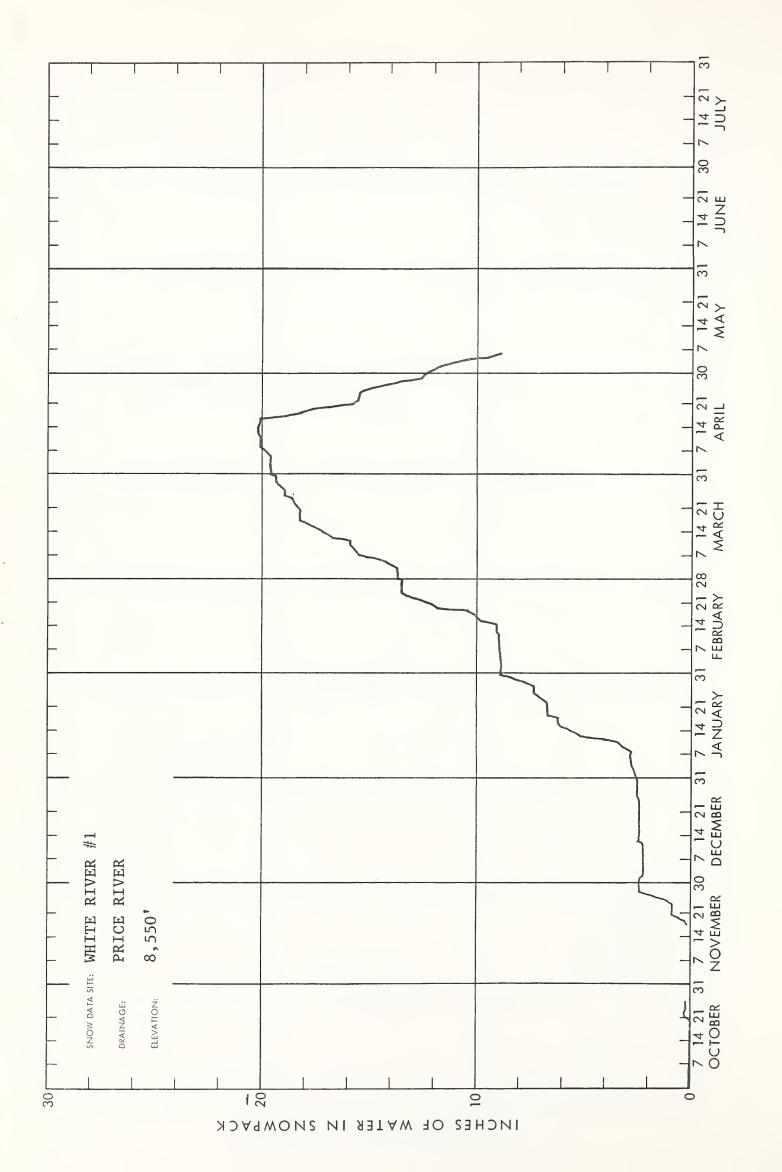


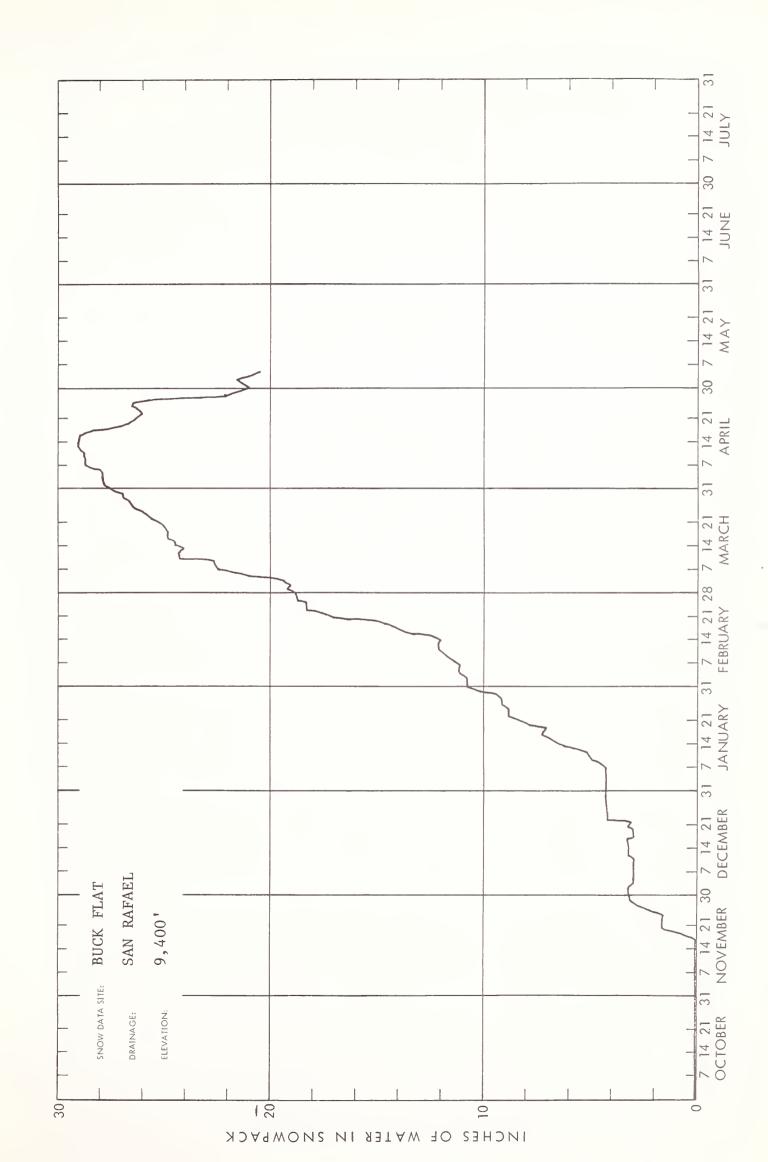


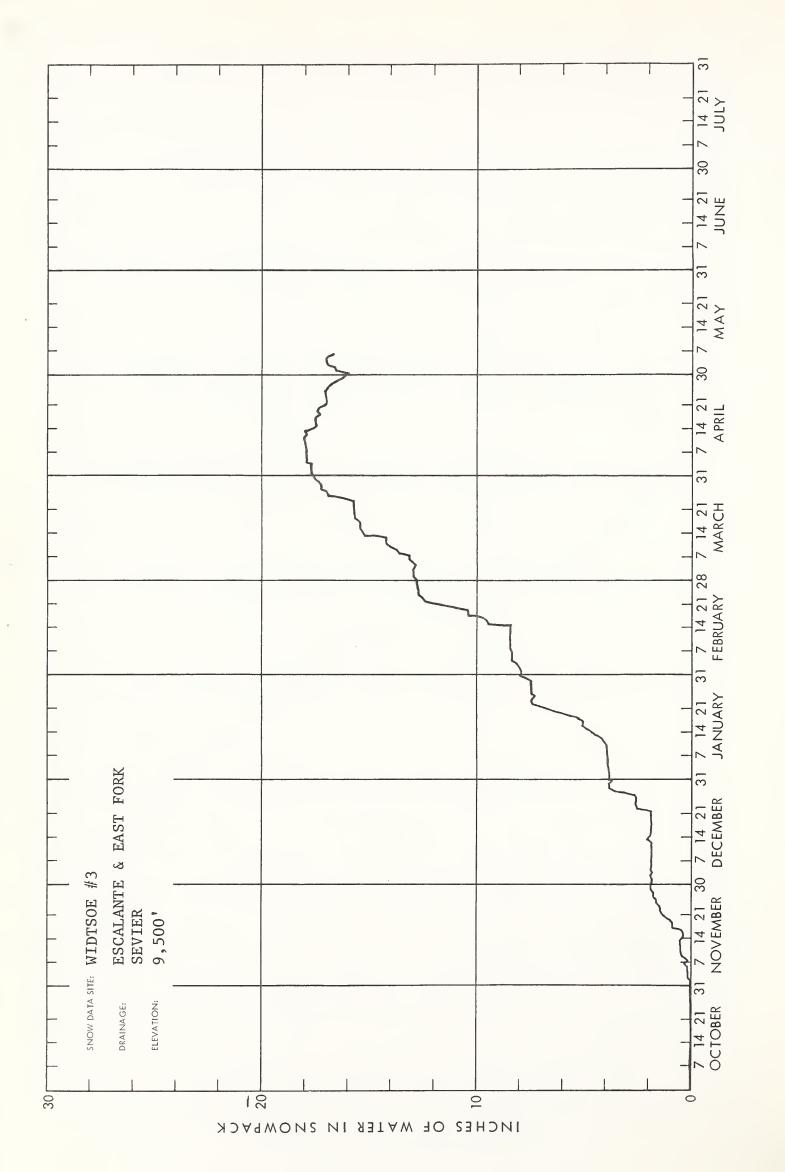


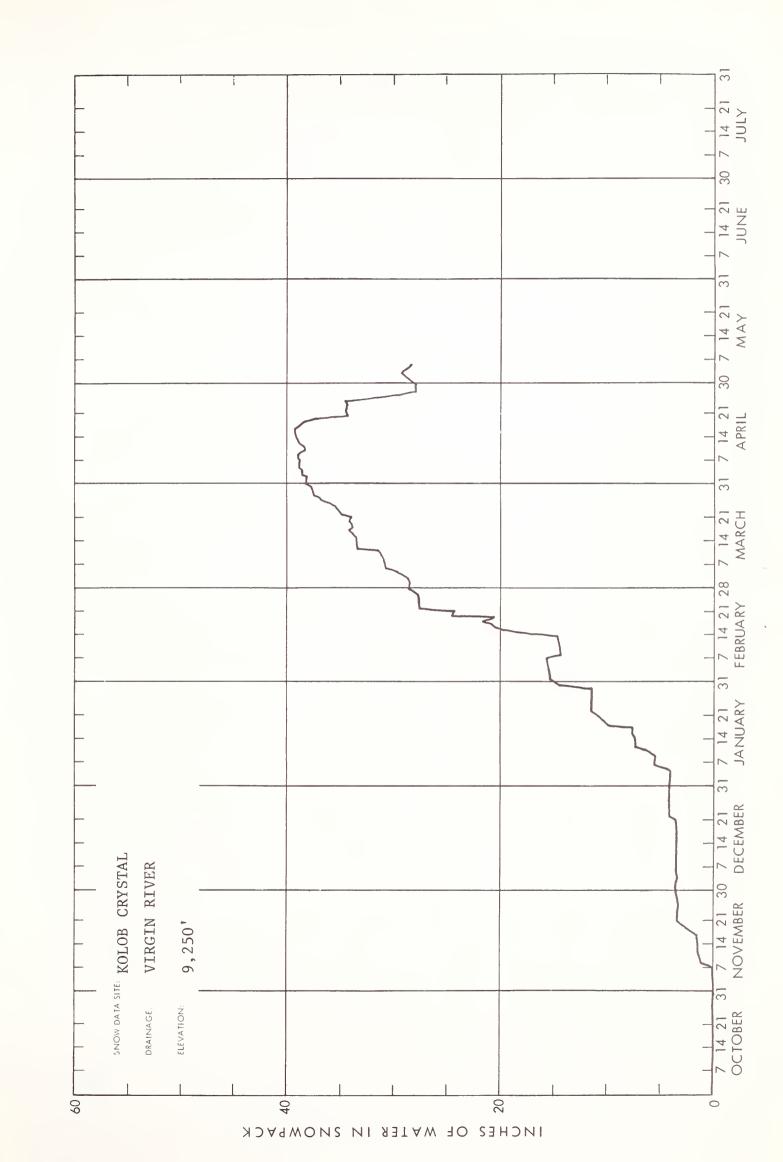


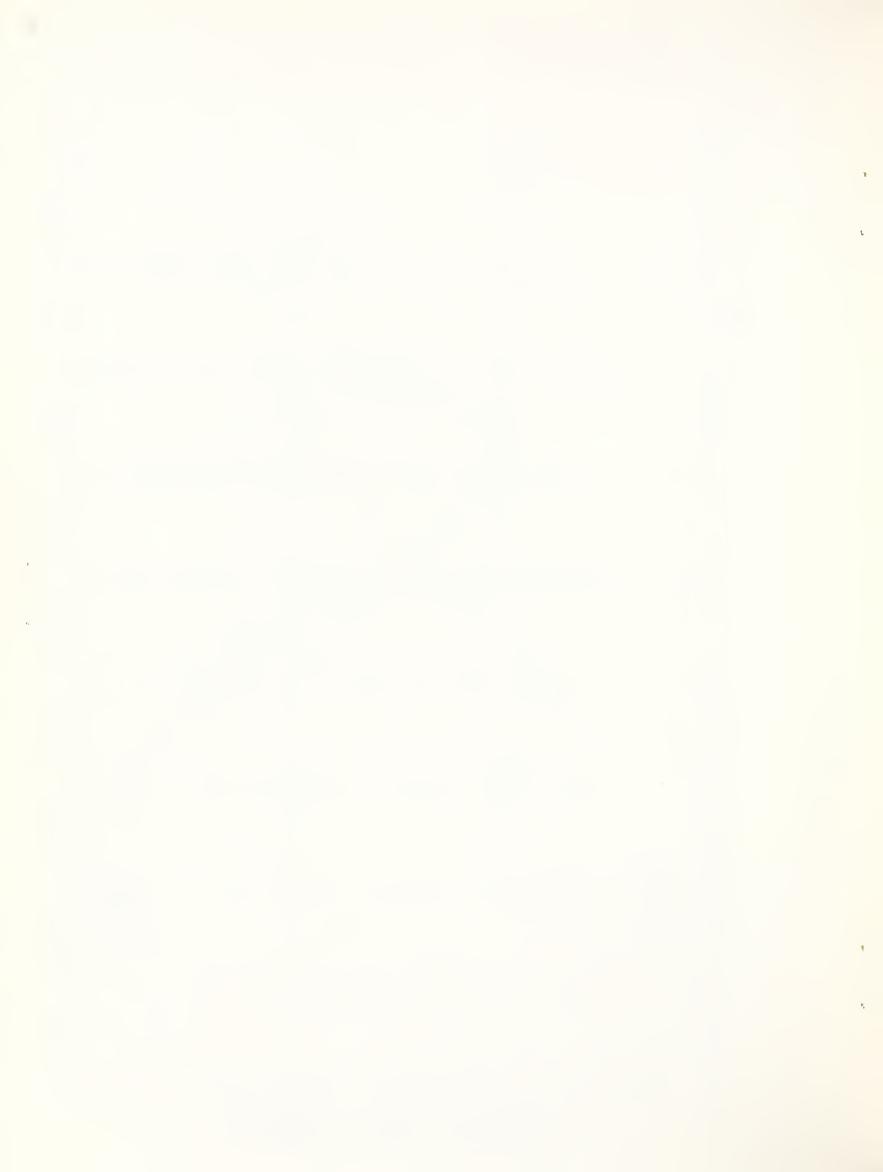














SNOW COURSES AND RELATED DATA MEASURING SITES

LEGEND

UTAH

1980
20 20 4
SCALE 100

USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

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